Ohlone College provides Alternate Media services to qualified students who need materials in alternative formats such as Braille, large print, audiotape, or electronic text. For additional information, please contact Disabled Students Program and Services at (510) 659-6079.

Ohlone College maintains an atmosphere that is welcoming to all students and conducive to their academic and personal success. The College provides an environment free of all forms of harassment, in which all students and employees are treated with dignity and respect. Ohlone College is committed to equal opportunity in educational programs, employment, and campus life. The College does not discriminate on the basis of age, ancestry, color, disability, gender, marital status, national origin, parental status, race, religion, sexual orientation, or veteran status in any access to and treatment in College programs, activities, and application for employment.

Ohlone College is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC), of the Western Association of Schools and Colleges, an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

The Ohlone Community College District has made every reasonable effort to determine that all information stated in this catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the Ohlone Community College District for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District. The District further reserves the right to add, amend, or repeal any of its rules, regulations, policies, and procedures. Students are expected to be familiar with the information in the Catalog, Class Schedule, and other publications relating to student attendance and conduct.

Selena Sin and Christy Yip came from Macau and Hong Kong to study at Ohlone. Photo courtesy of College Relations.
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Ohlone students, staff, and administrators visit Hangzhou University in China. Photo courtesy of College Relations.
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Campus Map .................................................. inside back cover
ACADEMIC CALENDAR 2007-2008

Fall Semester 2007

August 27  Instruction begins
August 31  Last day to add semester-length class without instructor’s signature
September 1-3  Holiday – Labor Day (weekend classes do not meet)
September 4  Last day to drop and be eligible for a refund
September 9*  Last day to add a semester-length class with instructor’s signature
September 9*  Last day to drop a semester-length class without a W grade
September 9*  Last day to submit a petition to audit semester-length class
September 21  Last day to petition to complete class on a credit/no credit basis
October 4  Last day to apply for Fall 2007 graduation or Certificate of Achievement
November 9  Holiday – Veterans’ Day (weekend classes do meet)
November 15  Last day to drop from semester-length class with a W grade
November 22-25  Holiday – Thanksgiving (weekend classes do not meet)
December 9  Last day of instruction
December 10-14  Final Exam Period
December 15-January 27  Semester Break

*Admissions and Records office hours do not extend to cover weekends and/or holidays. Access during non-office times is available online through WebAdvisor (https://webadvisor.ohlone.edu).

Spring Semester 2008

January 21  Holiday – Martin Luther King Jr. Day
January 28  Instruction begins
February 1  Last day to add semester-length class without instructor’s signature
February 5  Last day to drop and be eligible for a refund
February 10*  Last day to add a semester-length class with instructor’s signature
February 10*  Last day to drop a semester-length class without a W grade
February 10*  Last day to submit a petition to audit semester-length class
February 15-18  Holiday – Presidents’ Weekend (weekend classes do not meet)
February 22  Last day to petition to complete class on a credit/no credit basis
March 7  Last day to apply for Spring 2008 graduation or Certificate of Achievement
March 24-30  Spring Break
April 25  Last day to drop from semester-length class with a W grade
May 16  Last day of instruction
May 19-23  Final Exam Period
May 22  Commencement
May 26  Holiday – Memorial Day

*Admissions and Records office hours do not extend to cover weekends and/or holidays. Access during non-office times is available through WebAdvisor (https://webadvisor.ohlone.edu).

Summer Session 2008

June 23  Instruction begins
July 4  Holiday – Independence Day
July 31  Instruction ends

Dates are subject to change and are accurate at the time of catalog publication. Students should check the current Class Schedule or the Admissions and Records Web page for dates for the specific term.
VISION, MISSION, VALUES, AND GOALS
2004-2009

VISION STATEMENT

Ohlone College will be known throughout California for our inclusiveness, innovation, and superior rates of student success.

MISSION STATEMENT

The Mission of Ohlone College is to serve the community by offering instruction for basic skills, career entry, university transfer, economic development, and personal enrichment for all who can benefit from our instruction in an environment where student learning success is high valued, supported, and continually assessed.

CORE VALUES

- We provide life long learning opportunities for students, college personnel, and the community.
- We open access to higher education and actively reach out to underserved populations.
- We promote diversity, inclusiveness, and openness to differing viewpoints.
- We maintain high standards in our constant pursuit of excellence.
- We value trust, respect, and integrity.
- We promote teamwork and open communication.
- We practice innovation and actively encourage risk-taking and entrepreneurship.
- We demonstrate stewardship for our human, financial, physical, and environmental resources.

COLLEGE GOALS

1. Promote appreciation for and understanding of diverse races and culture by expanding the diversity of college personnel, international education offerings and exchanges, cross-cultural curricula, and ethnic/cultural events.
2. Develop across the curriculum the Learning College Model, utilizing methods and technologies that hold the most promise for improving student course and program completion success rates.
3. Develop strategies to increase the proportion of full-time students including learning communities, cohort groups, enhanced facilities, and improved course availability.
4. Provide continuous learning for all personnel associated with the District and promote an organizational structure that is adaptable, collegial, and supportive of the Learning College Model.
5. Promote the health, environmental, cultural, and economic vitality of the communities served by the District through programs of outreach, community service, and partnership ventures.
6. Promote and maintain an accessible, clean, safe, and healthy college environment through continuous engagement of students and college personnel in campus preparedness, wellness, beautification, universal design, and environmental sustainability.
7. Increase public and private funds for educational programs, equipment, and facilities through entrepreneurial activities, grants, and the college foundation.
8. Develop and implement a District-wide facilities plan which encompasses the design, construction (including furnishings and equipment), renovation and major scheduled maintenance of College facilities that support programs and enhance student and employee success.

Adopted by the Board of Trustees 6/9/04
Revised to include Goal #8: 7/12/06
Welcome to Ohlone! We are honored that you have chosen to pursue your education at Ohlone and are excited to have this opportunity to share our campus, programs, and services with you. We hope that you will take advantage of the many programs and services available at Ohlone.

RECENT HIGHLIGHTS AT OHLONE

Newark Center for Health Sciences and Technology

In the Spring of 2008, Ohlone College will begin offering classes at the Newark Center for Health Sciences and Technology. The campus is located at 39399 Cherry Street, across the street from Newark Memorial High School. The eco-friendly campus will be the first “green” community college campus in the nation. The campus incorporates energy efficient features such as photovoltaic solar panels, geothermal heating and cooling, and high-efficiency lighting. The interior areas include installation made from recycled blue jeans, carpets made from recycled material, and furniture that is made from at least 65% recycled materials. The landscape will consist of native Bay Area low water consumption plants and grasses.

A variety of programs and courses will be offered during the day, at night, on the weekends, and online to accommodate student scheduling needs. Environmental and Sustainability components will be implemented across the curriculum. Program offerings will include Physical Therapist Assistant; Registered Nursing; Respiratory Therapist; Phlebotomy; Allied Health; Biotechnology; Geography and Geographic Information Systems (GIS); and Environmental Sciences and Emerging Technologies. A selected array of General Education; fitness and wellness; and lifelong learning courses will also be an integral part of the Newark campus curriculum.

Several environmental active and collaborative leaning projects will also be part of the student learning experience. Lab projects in Environmental Biology, Geography, GIS, and the emerging Environmental Sciences and Studies program will include restoring the nearby wetlands, working within the environmental outdoor lab, and learning about the renewable energy features that are part of the new campus.

Student Support Services Center

During the Summer of 2007 construction began on the new Student Support Services Center, with the building expected to open for the 2008-2009 academic year. The new Student Support Services Center will centralize student services such as Admissions and Records; Campus Activities; Counseling; Disabled Students Programs and Services; Extended Opportunity Programs and Services; Financial Aid; Student Health Center; Student Success Center; and the Testing Center, among other services.

Technology and Innovations in Classrooms

I-pod casting, big screen presentation screens, theater style seating, movable and flexible furniture that allow students and faculty to redesign their learning space, and ergonomically designed chairs are just a few of the technological and innovated features that are rapidly emerging within the classrooms on the Fremont campus. Two experimental learning labs, Rooms 1402 and 1406, have been remodeled to give students and faculty opportunities to test out new furniture and explore active and collaborative learning strategies that enhance student learning. Color has been added to the walls along with improved lighting to provide a new and engaging learning environment.
ACCREDITATION

Ohlone College is accredited by the national Accrediting Commission for Community and Junior Colleges (ACCJC), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. Ohlone has been accredited since 1970. Accreditation visits are made every six years by the Western Association of Schools and Colleges, a division of ACCJC [10 Commercial Blvd., Suite 204, Novato, CA 94949 (415) 506-0234]. The last visit was in 2001; the next visit will be in 2008.

THE COMMUNITY COLLEGE SYSTEM

The first community college in the United States, Joliet Junior College in Illinois, was founded in 1901, making 2001 the 100th anniversary of the community college system. According to the American Association of Community Colleges, as of 2000 there were more than 1173 community colleges in the United States, with 997 of those institutions being publicly controlled. There are 10.4 million students attending community colleges in the United States, representing 44% of all undergraduate students in the United States and 45% of all first-time freshmen attending community colleges in the United States. Annually community colleges award more than 450,000 associate degrees and nearly 200,000 certificates.

The California Community College system of two-year public institutions is composed of 109 colleges statewide organized into 72 districts. The California Community College system served more than 2.5 million students during the 2005-2006 academic year and represents the largest system of higher education in the world. Ohlone College is a part of the Ohlone Community College District with campuses in Fremont and Newark, as well as the virtual campus of online course offerings. During 2006-2007 the Ohlone Community College District served six high schools, two continuation high schools, two adult schools, and the Regional Occupational Program, and more than 18,000 students. Ohlone is proud of its role in the community college system both in the United States and California, and honored to be able to provide its students with a quality educational experience.

IMPORTANT FACTS ABOUT OHLONE

- Ohlone enrolls 18,000 students per semester at our Fremont and Newark campuses and online.
- Ohlone offers 184 degrees and academic programs.
- Every year more than 500 students transfer to four-year colleges and universities.
- More than 760 students graduate with degrees or earn vocational certificates every year.
- Ohlone College employs 415 part-time and full-time faculty and 215 support and management personnel.

HISTORY OF OHLONE

Established in 1965, Ohlone College serves the cities of Fremont and Newark located in the southeast area of the San Francisco Bay Area, California. The Fremont campus is located on Mission Boulevard off Highway 680 on a beautiful 534-acre hillside site just south of historical Mission San Jose. Ohlone College is part of the Ohlone Community College District.

Officially named Ohlone College on June 18, 1967, the institution honors the early Ohlone Indians of the Costanoan tribe, who inhabited the Fremont and Newark area. Long before the local Indians were named Costanoans by the Spanish priests, they were known by a neighboring Miwuk tribe as the Ohlones or “people of the West.” Distinguished by peaceful pursuits, especially in agriculture, they held profound reverence for the earth, believing it was theirs for living and not for the taking. They aided the Franciscan Fathers in building the Mission San Jose de Guadalupe in the late 18th century and prospered until 1806-1833 when a series of epidemics virtually destroyed the tribe. Some descendants, however, still reside in the Fremont-Newark area.

In January of 2005, the College introduced a new logo to more fully represent the Ohlone heritage of our name. The new logo represents two eagle feathers suspended from the sun. The rays shooting off from the sun look like arrowhead points aimed in the four compass directions, a traditional Native American symbol. The white band around the sun represents the “O” in Ohlone. The two feathers, another traditional symbol, also serve as a reminder of the Native American traditions that Ohlone has emulated with their goals of being more environmentally aware in our building and our practices and celebrating and promoting cultural diversity.

Ohlone Community College District opened its doors in September 1967. The 2007-2008 academic year marks the 40th anniversary of serving the Tri-cities community with higher education opportunities. Classes were first held at a temporary site in the former Serra Center Home for Girls on Washington Boulevard in Fremont. A year later, the Huddleston Ranch property, located in the Mission foothills just south of old Mission San José, was selected as the permanent campus site.

THE OHLONE CAMPUSES

Fremont Campus

The Fremont campus opened in September 1974 and is located on a beautiful 534-acre hillside above southern Alameda County between Highways 680 and 880. With 300 acres reserved for open space, the campus offers a peaceful learning environment for students. Natural features including black oak, chaparral, and seasonal springs dominate the landscape and welcome wildlife alongside the academic environment.

The architecture is designed to complement the hillside surroundings. At the center of the campus are eight of the nine original buildings comprising the academic village, composed of classroom buildings dedicated to music, art, deaf studies, athletics, and science labs, including our biotechnology laboratory and greenhouse. The central campus also features a student newspaper, cafeteria, and bookstore.

New to the Fremont campus are the fine and performing arts center, the Gary Soren Smith Center for the Fine and Performing Arts (which opened in 1995); the business and technology center, the Morris and Alvirda Hyman Hall (2002); and, just beginning construction, the Student Services Support Center located at the southern end of the upper campus where Building 7 was formerly located. Groundbreaking for the Student Support Services Center occurred in March 2007 and the Student Support Services Center is scheduled for completion in the 2008-2009 academic year.

Newark Campus

Early in its history Ohlone began offering satellite classes in Newark to better serve students at the north and west end of the district. In 2001 voters approved a bond committing $100 million to building a campus site in Newark. The groundbreaking took place in May 2005 and construction has continued to keep pace with the building schedule despite heavy rain and other setbacks. The new facility, known as the Ohlone College Newark Center for Health Sciences and Technology, opens in January 2008. The building actually consists of five buildings merged into one for greater energy efficiency and to conserve land use and cost. The Newark Center will focus on cutting edge vocational programs including health sciences, biotechnology, environmental studies, computer networking, and emerging technologies.
Newark Area Campuses

Ohlone’s campuses in the Newark area provide convenient, alternative locations and offer a wide range of courses. Courses are offered at both the University of Phoenix and Newark Memorial High School. Newark Center day classes are offered at the University of Phoenix campus located at 40440 Encyclopedia Circle, Fremont. Evening classes in Newark are held at Newark Memorial High School located at 39375 Cedar Boulevard, Newark. Both of these sites are located close to the future site of the Ohlone College Newark Center for Health Sciences and Technology.

Learning Resources Center (LRC/Library)

Within the Learning Resources Center, located on the third and fourth floors of Building 1, are a variety of services to maximize student success. The Library contains a broad collection of materials, arranged for easy access using the Library of Congress Classification System, and includes over 61,000 books and 225 print periodical subscriptions, as well as Web-based access to some 2,000 periodicals in full-text and to a growing collection of electronic books. Media includes audio and videotapes, compact discs, and CD-ROMs with listening and viewing equipment in the Student Technology Center. Approximately 40 Internet workstations are available for research use. A variety of seating is available, including individual carrels, tables, and group study rooms, which are available on a first-come basis. Librarians teach students and staff to gather, evaluate, and use information, both one-on-one at the Information Desk and in classes. Although the library is primarily a resource for Ohlone students, faculty, and staff, the community is welcome to visit and peruse Web resources at http://www.ohlone.edu/org/library.

The Student Technology Center in Room 1305 offers peer tutoring for students, general-purpose computers, and two specially-equipped workstations for use by students with disabilities. The Media Center, located at the Circulation Desk, houses a wide array of media for use by students in the Student Technology Center. Faculty may reserve instructional videos and computer equipment for classroom use.

Student Center

The Hochler Student Center in Building 5 houses the Ohlone College Bookstore; Ohlone College Deaf Center; Cafeteria; facilities for The Monitor, the Ohlone College student newspaper; classrooms; and serves as the hub of student activities. Building 5 was dedicated to the memory of the Ohlone Trustee Abraham (Abe) Hochler on June 17, 1966. Hochler had served the Fremont-Newark Community College District as a trustee from July 1, 1966 until April 2, 1976, and is remembered for his exceptional leadership in development and construction of the College. He was a staunch supporter of students during his years of service to the district.

Gary Soren Smith Center for the Fine and Performing Arts

The Gary Soren Smith Center for the Fine and Performing Arts was built on the Ohlone campus in Fremont in 1995 to serve student and community needs for a professional performing arts facility. An impressive architectural creation, the Gary Soren Smith Center for the Fine and Performing Arts can be seen on the hills above Fremont from as far away as the San Mateo Bridge. The Gary Soren Smith Center for the Fine and Performing Arts boasts state-of-the-art facilities in the areas of radio and television production and broadcast, a dance studio, stages for theatre productions and music performance, as well as a professional art gallery. The Smith Center has three stages: the Jackson Theatre, a 400-seat proscenium theatre; the NUMMI Theatre, an intimate black box stage with adjustable seating; and the Ohlone College Outdoor Amphitheatre with a breathtaking view of the Bay Area. The louie-meager Art Gallery displays a wide range of professional art exhibits from Skateboard Art to Kinetic Neon Sculpture. The Television facilities provide staging, shooting, post-production, and broadcast of news and entertainment programming. KOHL Radio is a popular Bay Area top-40 station broadcasting on 89.3 FM. The Gary Soren Smith Center for the Fine and Performing Arts is the largest performing arts theatre in the southern end of the East Bay. Each season Smith Center Presents! offers professional artist performances; a children’s theatre series; Louie-Meager Art Gallery Exhibits; and the Ohlone Music, Theatre, and Dance Department performances. In addition, it is the primary performance site for the Fremont Symphony Orchestra.

Ohlone Network Television (ONTV)

With two fully equipped studios and state-of-the-art control room, Ohlone College’s Broadcasting Department offers students instruction for a career in television from instructors who have spent their careers working in commercial television news and entertainment. Students use professional grade Sony DV Cam and Beta Cam cameras and AVID digital editing equipment. The department’s AVID Xpress Elite Non-linear Editing Suite and multiple AVID DV Editing Bays give students the chance to receive extensive hands-on editing time and to develop editing skills that are in short supply in the broadcast industry. The Broadcasting Department’s Live News Production class produces a weekly newscast throughout most of the school year, broadcast live over ONTV Channel 28 and serving the cities of Fremont, Newark, and Union City. A Television Sitcom class uses Hollywood television scripts to produce a half-hour pilot that airs over ONTV Channel 28. A Producing and Directing Live Television class is also offered for students interested in the technical side of broadcasting, as well as a Live Production Crew class in which students cover live theatre, sporting, and political events.

Radio Station KOHL

KOHL FM 89.3 is a commercial broadcast training program focusing on the business of radio broadcasting. KOHL is a 24-hour operation with on-air staff primarily provided by students in a controlled and formatted broadcast lab environment. The station’s operational platform is a computer business software program fully integrated with digital broadcasting equipment considered state-of-the-art in the industry. This rigorous program prepares students for a wide variety of positions including on-air talent, production, programming support, and broadcast sales to meet business and industry standards.
**Morris and Alvirda Hyman Center for Business and Technology**

The mission of the Morris and Alvirda Hyman Center for Business and Technology is to provide quality, cost-effective education and training for the fields of business, computer science, office technology, and software applications. Hyman Hall serves to advance economic development in the greater Fremont-Newark region. Hyman Hall’s programs perform three important functions:

1. Prepare students for entry-level, re-entry, mid-level, or advanced jobs requiring a community college education.
2. Assist students in preparing to transfer to baccalaureate degree-granting institutions.

Programs housed in Hyman Hall include Computer Applications and Office Technology; Computer Networking and Emerging Technology; Computer Science; English; English as a Second Language; Graphic Arts; Mathematics; and Multimedia Studies. Hyman Hall boasts a seven-to-one student per computer ratio and offers the latest technology in multimedia, business, and other applications.

Hyman Hall is a vital economic development asset in the Fremont-Newark region, providing benefits to the entire community. Hyman Hall offers opportunities to prepare for a wide variety of occupational fields. It is also a place where employees can receive continuing education and professional development. By preparing individuals for the workplace and providing continuing education to employees, Hyman Hall is an excellent resource for employers as it offers customized training for companies and organizations.

**Ohlone College Center for Deaf Studies**

Ohlone College has one of the largest and most comprehensive programs in California designed to meet the academic and vocational needs of Deaf and Hard of Hearing students. The Ohlone Deaf program is unique in that there are both self contained and mainstreamed classes. Students may work toward a certificate, associate degree, or may fulfill requirements needed to transfer to four year institutions such as Gallaudet University; National Technical Institute for the Deaf/Rochester Institute of Technology; California State University Northridge; or other universities. The large Deaf student population at Ohlone allows for a wide variety of extra curricular activities, including special interest clubs on campus. There are many activities for students within the local and Bay Area Deaf communities as well.

As an important complementary program, Ohlone has one of the largest and most comprehensive ASL/Deaf Studies associate degree and certificate programs available in the United States. In addition, Ohlone has nationally recognized Interpreter Preparation associate degree and certificate programs. The close proximity of the Ohlone College Center for Deaf Studies to the California School for the Deaf in Fremont provides unique collaborative opportunities for Deaf, Hard of Hearing, and hearing students.

The program is staffed by full time and part time instructors, all educated and certified in the area of education of Deaf and hard-of-hearing people. Counselors provide assistance with registration; personal, academic, and social concerns; and educational, vocational, and career guidance. Counselors are available to assist students with any of these educational plans. The Center for Deaf Studies is located in Building 5, third floor (www.ohlone.edu/instr/div_deaf/). Registration information and appointments with a counselor may be obtained by calling (510) 659-7326 VP/TTY or (510) 659-6269 (V).

**Gallaudet University Regional Center**

Since its founding in 1864, Gallaudet University in Washington, D.C. has been a symbol of achievements and abilities of Deaf and Hard of Hearing people and has provided leadership, inspiration, and exemplary programs for Deaf and Hard of Hearing people all over the world. For some time the University has been expanding its scope of services beyond the traditional four-year liberal arts and practical sciences degree. This expansion is in response to the changing needs of society.

The Gallaudet University Regional Center at Ohlone College opened in October 1983. The Center serves twelve western states including Alaska, Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming and works in cooperation with the Laurent Clerc National Deaf Education Center at Gallaudet University.

The Center provides information, training, services, and resources to address the educational and vocational needs of Deaf and Hard of Hearing people from birth through post-secondary employment, their families, and the professionals who work with them. The Center has a library of books and videotapes for loan. Upon request the Regional Center will assist local communities with planning and coordinating educational programs, workshops, and seminars for Deaf and Hard of Hearing people, their families, and professionals who work with them. The Center will utilize resource persons from Gallaudet University as well as appropriate resource persons from schools for the Deaf, colleges and universities, and state and local agencies.

Additional information about the Gallaudet University Regional Center may be obtained by calling (510) 659-6268 (Voice/TTY); by sending a fax to (510) 659-6033; or by sending an e-mail to gurc.ohlone@gallaudet.edu.

**Fremont Campus Tours**

The Ohlone College Student Ambassadors conduct campus tours every week. Please refer to the Student Ambassador Web site at www.ohlone.edu/ambassador for exact days and times of tours. Tours begin promptly at the scheduled time and last approximately one hour. Anyone interested in taking a tour of the fremont campus should meet in the Lobby of Building 1. Comfortable shoes should be worn as the tour involves a great deal of walking.

Individuals in need of special accommodations for taking a campus tour should contact the Student Ambassador Office at (510) 979-7563 at least 48 hours prior to the tour. Tours can be provided on alternative days by making arrangements in advance with the Student Ambassador Office. Groups over 10 people need to contact the Student Ambassador Office at (510) 979-7563 or by e-mailing ambassadors@ohlone.edu to arrange a private tour.
Tri-Cities One-Stop Career Center

39899 Balentine Drive, Suite 220
Newark, CA 94560
(510) 742-2323
http://www.tricitiesonestop.com

The Tri-Cities One-Stop Career Center, Newark offers free resources and services in support of employers and all job, education, and training seekers. The One-Stop Career Center is a member of East Bay Works, a regional partnership that coordinates employment activities throughout Alameda and Contra Costa counties. The resources and services include:

- Job listings
- Computers with T-1 Internet access
- Career assessment tools
- Career counseling by appointment
- Labor market information
- Job search workshops on topics such as resume writing, interview preparation and practice, job search strategies, and more

Community Education

Community Education courses are designed to meet the not-for-credit education needs of individuals in the Tri-Cities area. No tests or exams are required and classes provide skills, knowledge, and hands-on activity appropriate to the content. Students can improve job skills, prepare for promotion, or explore new careers by taking not-for-credit workshops. Many classes are available online; please go to http://www.ed2go.com/ohlonecc for a demonstration or descriptions of online classes. Traffic Violators School is scheduled at the Fremont campus on selected Saturdays. Ohlone Academy has special classes designed for students going into grades 4-9. Students practice critical thinking skills and enjoy a variety of activities including arts, computers, math, reading, and writing.

The Community Education program is self-supporting and receives no taxpayer funding. Visit the Community Education Web site at http://commed.ohlone.edu or call (510) 742-2350 for the updated class schedule.

Study Abroad Program

Since 1986 the Study Abroad Program has been a part of the instructional offerings at Ohlone. From its inception, Ohlone has offered students the opportunity to study and travel in a variety of countries during the summer, fall, and spring. The Study Abroad Committee, part of the International Education Task Force, has overseen a variety of summer programs offered by the Art, English, Language Arts, Music, and Theatre and Dance departments. Students have studied art in Italy, mastered French in Paris, attended theatre in London, performed concerts throughout Europe, and spent semesters abroad in both Stratford-Upon Avon and Cambridge, England. Future travel may include China as well as other interesting destinations. Beginning in 2006 students have the opportunity to study in Sydney, Australia. Students should also check the Study Abroad Web site at http://www.ohlone.edu/org/studyabroad for additional study abroad opportunities.

Students may receive more information about financial aid for use in Study Abroad by contacting the Ohlone College Financial Aid Office at (510) 659-6150. Students who are interested in studying abroad may contact the Study Abroad Coordinator at (510) 979-7441 or via e-mail at kharrison@ohlone.edu.

OHOLONE COMMUNITY COLLEGE DISTRICT BOARD OF TRUSTEES

The Ohlone Community College District serves the cities of Fremont and Newark and includes all facilities and functions of Ohlone College. The District is governed by a seven-member Board of Trustees who are selected by voters in local elections. The Board sets District policy, appoints the District Superintendent, and oversees the management of District assets and operations. Information about the Board of Trustees activities can be found on their Web page at http://www.ohlone.edu/org/board.

OHOLONE COLLEGE FOUNDATION

The Ohlone College Foundation exists to broaden educational opportunities for students by providing scholarships and support to Ohlone College programs. The entire Ohlone community benefits from the Foundation’s provision of computer equipment, other specialized facilities, and community-focused programs at the Fremont and Newark campuses. The Foundation receives the bulk of its financial support from members of the private and business communities: donations, endowments, and other gifts are an important source of funding for the College and its students. Of course, each gift to the College and its students is a gift to the community-at-large as well.

Programs With a Purpose, Gifts With Meaning

Financial support for the Foundation comes from individuals, businesses, civic groups, community organizations, and other foundations. To raise funds for its endeavors the Foundation conducts a range of programs, many of which go well beyond fund-raising. The Annual Citizen of the Year Benefit Luncheon, a gathering of regional business, political, and cultural leaders, is one example. Each year there is also a series of giving campaigns targeting community members, businesses, College employees, and local corporations.

How You Can Help

The Foundation facilitates grants, gifts, planned gifts, corporate funds, gifts-in-kind, and a host of other donation vehicles. Many donations are made with a specific purpose: to honor an individual (living or deceased), for example, or perhaps to fund a specific type of scholarship. Many gifts are left unrestricted to allow the Foundation to identify areas of need.

Support for the Foundation can be in the form of cash, commitments, life insurance, wills, or transfer of investments and real property. Other giving arrangements include bequests (wills), trust funds, and endowments, which are invested for long-term growth and ongoing income to help Ohlone students reach their educational goals. All gifts are tax deductible and subject to current tax accounting limitations. Prospective donors are encouraged to consult a qualified tax consultant for more detailed information. Contributions of any size are enthusiastically welcomed and greatly appreciated. To learn more about the Foundation or ways to help, please call (510) 659-6020.
ADMISSION INFORMATION

Admission to Ohlone College is open to anyone who is a high school graduate, has a high school equivalency certificate or GED, or is 18 years of age or older and shows evidence of being able to profit from instruction. Students under 18 years of age qualify for admission by meeting one of the following requirements:
- Graduating from high school.
- Passing the California High School Proficiency Examination (CHSPE) or General Educational Development (GED) Examination.
- Meeting the K-12 admission requirements as described on page 16.

OPEN ENROLLMENT POLICY

Unless specifically exempted by statute, every course, course section, or class, the average daily attendance of which is to be reported for state aid, wherever offered and maintained by the District, shall be fully open to enrollment and participation by any person who has been admitted to the College and who meets such prerequisites as may be established pursuant to the California Administrative Code, and shall be held only in places fully open to all such persons.

MATRICULATION

Matriculation is comprised of eight direct student-related components: Admission; Placement; Orientation; Counseling and Advising; Student Follow-up; Coordination and Training; Research and Evaluation; and Prerequisites, Corequisites, and Advisory Classes. All new students are expected to participate in each of the matriculation components unless they meet at least one of the following conditions:
1. Enroll only in non-credit or Community Education classes;
2. Have an earned associate or higher degree; or
3. Plan to enroll only in one performance or activity class.

The Counseling staff assists students with exemption requests.

Ohlone College agrees to:
- Assess basic educational skills and career goals;
- Orient students to the College’s programs, services, and policies;
- Provide quality instruction;
- Provide quality counseling;
- Provide a wide variety of courses;
- Offer services to support each student’s education;
- Review student’s progress toward individual goals.
Ohlone College expects students to:

- Declare an educational goal;
- Attend classes;
- Complete homework assignments;
- Meet with a counselor to discuss available choices;
- Seek support services as needed;
- Strive to make progress toward their goals.

**APPLICATION FOR ADMISSION**

Students may apply online via WebAdvisor at https://webadvisor.ohlone.edu. Applying online via WebAdvisor is the fastest way to apply. Application forms are also available online via the Ohlone College Web page at http://www.ohlone.edu/org/admissions/forms/appforadmission.pdf, inside each term's Class Schedule, and from the Office of Admissions and Records. To be able to register for classes all new and former students in the following categories must submit an application for admission:

- New students entering Ohlone College for the first time;
- Former students (students who did not attend Ohlone College during the previous Fall or Spring semester);
- All new or returning international students;
- K-12 students seeking special admission.

Students who attended Ohlone College during the previous Fall or Spring Semester do not need to submit a new application. Per California Education Code, K-12 students are required to submit a new application every term.

**Transcripts for Admission**

The following students are expected to submit official transcripts from all previously attended institutions:

- Students enrolling in 7 or more units;
- Students enrolling in 6 units or less and working toward a degree or certificate;
- Applicants to the Registered Nursing, Physical Therapist Assistant, or Respiratory Therapy Programs;
- Veterans;
- International students;
- Students planning to transfer to a four year college or university;
- Students participating in intercollegiate sports.

The applicant is responsible for requesting that official transcripts are mailed directly to the Office of Admissions and Records. Applicants who have been out of high school for five years or more do not need to submit their high school transcripts.

**Programs Requiring Special Admission**

In addition to the basic requirements for admission to Ohlone College, there are specific requirements for admission to the Registered Nursing, Respiratory Therapy, and Physical Therapist Assistant Programs. Admission criteria may change periodically and placement is limited by space. Refer to the Health Sciences Division Web site at http://www.ohlone.edu/instr/div_health/ for admission criteria and program options. Prospective students should check the Web site for potential changes in the RT program admission process.

**Ohlone College/Diablo Valley College Cooperative Program in Respiratory Therapy**

The Respiratory Therapy curriculum is offered by Ohlone College in cooperation with Diablo Valley College. Additional information regarding this cooperative program may be obtained by going to the Health Sciences Web site at http://www.ohlone.edu/instr/div_health/ or the Career Development Office on the Diablo Valley College campus.

**Residency Information**

By state law Ohlone College is required to obtain evidence from students of physical presence in California and of their intent to make California their home state for other than a temporary period. A California resident, for purposes of community college admission, is a person who has maintained physical presence in California for at least one year and one day immediately prior to the first day of instruction with the demonstrable intent of making California his or her permanent home. Non-resident students who have attended three years of high school in California may be eligible for exemption from non-resident tuition per AB 540. Due to the complexity of residency requirements, students are encouraged to contact the Office of Admissions and Records at (510) 659-6100 with specific questions. Residency regulations may be found in sections 54000-54060 of Title 5 of the California Code of Regulations. A chart defining these regulations and detailing what documentation is needed is available on the Ohlone Web site at http://www.ohlone.edu/org/admissions/fees.html#residency.

**International Student Admission**

Ohlone College is authorized under federal law to enroll non-immigrant international students. The Ohlone College Office of International Programs and Services issues the Form I-20 to admitted international students. Students use the I-20 form issued by Ohlone College to apply for their F-1 Student Visa at the U.S. Embassy nearest to their home. Application deadlines are May 10 for the Fall Semester and October 10 for the Spring Semester.

To be considered for admission, international students must:

1. Complete high school education or its equivalent with satisfactory grades.

2. Submit to the Office of International Programs and Services the following:
   a. A completed International Student Application, including high school transcripts in English.
   b. A non-refundable International Student Application fee.
   c. Official bank documentation, in English, demonstrating the student or sponsor’s financial ability to cover the student's educational and living expenses for one year.
   d. A completed Financial Affidavit of Support.
   e. The required or higher score on the Test of English as a Foreign Language (TOEFL). A minimum score of 470 or above on the paper-based test (PBT); 150 on the computer-based test (CBT); or 52 on the Internet-Based Test (iBT) is required. The International English Language Testing System (IELTS) can be accepted in lieu of the TOEFL. Please inquire with the Office of International Programs and Services at (510) 659-6439 for information on Ohlone College's Conditional Admission service for students who do not yet have the required TOEFL score.

International students will be required to provide proof of health insurance coverage prior to registration in Ohlone courses.

Ohlone offers full academic and counseling services to international students. Each international student must maintain enrollment in at least 12 units of academic work each semester. A limited number of spaces in the College's Deaf Preparatory Program are available to F-1 Visa students. Please contact the Office of International Programs and Services at (510) 659-6439 for more information or visit the Web site at http://www.ohlone.edu/org/international/.
The Enrollment Process

Follow these steps to complete the Ohlone College Enrollment Process by computer or on paper.

**APPLY**
- Apply online at https://webadvisor.ohlone.edu or complete an Ohlone College paper application and submit it to the Office of Admissions and Records.
- Submit any necessary documents (immigration documents, etc.) to the Office of Admissions and Records.
- Receive a student ID number via e-mail after submission of all application materials or by calling the Office of Admissions and Records at (510) 659-6100 if an e-mail address is not available.
- Set up a WebAdvisor account at https://webadvisor.ohlone.edu to register, add, drop, waitlist, and pay for classes online.

**TAKE PLACEMENT TESTS**
(for ESL, English, and Math Prerequisites)
- Go to http://www.ohlone.edu/org/placement/ for information regarding placement tests and dates and times the Testing Center is open for placement testing.
- Take the required placement tests or clear all prerequisites for English and math with transcripts from previously attended institutions; see a counselor (Building 1, first floor) for assistance with clearing prerequisites.
- Review Test Summary on Web Advisor at https://webadvisor.ohlone.edu after completing required placement tests.
- See the Testing Center Web site at www.ohlone.edu/org/placement for an explanation of placement test results.

**COMPLETE ORIENTATION AND RECEIVE COUNSELING**
- Orientation is required of all new students.
- Complete the Online Orientation at www.ohlone.edu/org/orientation/
- Complete and electronically submit the Electronic Counselor worksheet, located at the end of the Orientation. The Electronic Counselor will then contact students to help in selecting classes and completing a Student Education Plan (SEP).
- Attend an In-Person Orientation Session. Counselors at the Orientation will assist students to choose classes and develop a Student Education Plan (SEP).

**REGISTER FOR CLASSES**
- Make sure all holds are cleared and any outstanding balances paid before registering.
- Register for classes online via WebAdvisor (https://webadvisor.ohlone.edu).
- **OR, if a class is filled**
  - Add to the waitlist and attend the first class session.
  - Go to http://online.ohlone.edu/onlineeducation/ for information and instructions for online classes.

**PAY FOR CLASSES**
- Pay online by Visa or MasterCard at https://webadvisor.ohlone.edu. Payment is due upon registration.
- Pay by check by using the Drop Box in the Lobby of Building 1.
- Pay by cash at the Cashier’s Window in Building 1, second floor.

**PREPARE FOR CLASSES**
- Print a copy of the class schedule from WebAdvisor to confirm registration and check for errors.
- **THEN**
- Purchase books by going online to www.ohlonebookstore.com or visiting the Ohlone College Bookstore on the Fremont campus.
Special Student Admission – K-12 Students

The term “special student” applies to all students who are currently in grades K-12 and wish to enroll in Ohlone courses. In accordance with Title 5 of the California Education Code, K-12 students may enroll as special part-time students while they maintain their regular school attendance. Units earned may be used for high school credit and college credit. There is a seven-unit maximum for K-12 students during Fall and Spring Semesters and Summer Term.

Enrolling in classes at Ohlone College is the first step in a college career. K-12 students shall conform to the College’s academic rules and regulations and the code of conduct expected of all college students. K-12 students will be expected to participate at a college level. Class materials and content may include adult language and subject material. Grades received at Ohlone College become part of a permanent college record and college transcript. Students should make class selections accordingly with parent, school, counselor, and principal guidance.

Application information and forms are available on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/) and at each district high school. It is advisable that K-12 students begin the admission process at least eight weeks before the start of any term due to the multiple signatures that are required for K-12 applications. K-12 students must submit an application each term.

K-12 Enrollment Steps

Admission for students who have yet completed the 9th grade requires a slightly different process than that for 10th-12th grade students. K-12 students should refer to the chart below and carefully follow the directions in the appropriate permission packet to avoid delays in completing the admission process.

Kindergarten-9th Grade Students

- Apply to Ohlone College online via WebAdvisor (https://webadvisor.ohlone.edu/) and obtain a K-9 permission packet online at www.ohlone.edu/org/admissions/highschool.html
  - OR -
  - Submit a paper application and obtain a K-9 permission packet at the Information Center (Building 1, first floor) or from any district high school.
- Obtain a parent’s signature
- Obtain a teacher’s signature
- Obtain a principal’s signature
- Complete the Health Waiver

10th-12th Grade Students

- Apply to Ohlone College online via WebAdvisor (https://webadvisor.ohlone.edu/) and obtain a 10-12 permission packet online at www.ohlone.edu/org/admissions/highschool.html
  - OR -
  - Submit a paper application and obtain a 10-12 permission packet at the Information Center (Building 1, first floor) or from any district high school
- Obtain a parent’s signature
- Obtain a principal’s signature
- Complete the Health Waiver

Placement Tests

The Ohlone College placement tests measure language, reading, and math skills. All tests are computerized and not timed. The placement tests are not pass or fail tests and are not used to exclude students from admission to Ohlone. The placement tests attempt to properly place students in reading, writing, and mathematics courses. The tests also identify prerequisite preparation (courses required before taking another course). Ultimate placement is often based on multiple criteria measures. Counselors can also review other factors such as previous coursework and any other appropriate information in order to place students into courses.

Steps for Taking the Placement Tests

1. Submit an application to Ohlone College and obtain an Ohlone College student ID number.
   - Students need to submit an application and receive an Ohlone College ID number before taking placement tests. Students can apply online via WebAdvisor at https://webadvisor.ohlone.edu. A paper application is also available online at http://www.ohlone.edu/org/admissions/forms/appforadmission.pdf, inside each term’s Class Schedule, and from the Office of Admissions and Records.

2. Review important information.
   - A photo ID (driver’s license, school ID, or passport) is required for placement testing.
   - An Ohlone College student ID number is required for placement testing.
   - Testing is offered free of charge.
   - The entire placement process will take approximately two hours to complete for both English and math. Students taking only one test (English or math) will finish earlier.
   - No word translators, calculators, dictionaries, or other study aids are allowed during the test.

3. Plan to arrive early to the Testing Center.
   - The Testing Center (Room 1405A) can accommodate 30 students at one time.
   - Testing is done on a first come, first served basis.
   - Students must arrive at the Testing Center (Room 1405A) to start the test during the open hours. The Testing Center’s hours are posted online at http://www.ohlone.edu/org/placement/.

4. Decide if it is necessary to take placement tests.
   - Students are expected to take placement tests if they plan any of the following at Ohlone College:
     - To obtain a certificate or an associate degree.
     - To take an English or math course.
     - To take courses which have English or math prerequisites.
     - To apply for financial aid without a high school diploma or equivalent. (Students who are taking placement tests for this purpose should inform the Testing Center that they are taking placement tests to meet the Ability to Benefit (ATB) requirements.)
     - To apply to the Registered Nursing, Physical Therapist Assistant, or Respiratory Therapy programs at Ohlone College.

Students are not expected to take the placement tests if they meet any of the following conditions:

- Have earned an associate degree or higher degree from an accredited institution in the United States.
- Will enroll in courses for which there are no English or mathematics prerequisites.
Have satisfactorily completed appropriate courses from another accredited college or university in the U.S. (Students are required to present official transcripts to demonstrate course completion.) Students who are exempt from placement testing must see a counselor in order to complete a matriculation waiver form.

Step 5: Determine when tests need to be taken
- Students should plan to take placement tests at the earliest possible date. Test sessions closer to the beginning of each term are usually more crowded. Availability is limited to the Testing Center’s open hours and 30 computer stations. Please refer to the Testing Center’s schedule online at http://www.ohlone.edu/placement/.

Step 6: Review study guides and sample questions
- Sample questions for English, math, and ESL placement tests are available online at http://www.ohlone.edu/org/placement/study-guides.html.
- Special assistance is available to students who have a disability or require special accommodations.

English as a Second Language (ESL) Placement Testing
Before taking the ESL placement test students must submit an Ohlone College application and receive an Ohlone College Student ID number. ESL placement testing includes Orientation and academic advising. Students are expected to stay for the entire placement process, which is approximately 4 1/2 hours. The ESL placement test includes writing an essay on an assigned topic, a listening comprehension test, and reading and grammar tests. Math tests are not offered during ESL testing; students who need to take a Math placement test should refer to the Math Placement Test information. No study guides, calculators, dictionaries, or other study aids are allowed during the test.

Students taking the ESL test need to bring the following items to the test:
- a photo ID (passport, driver’s license).
- an Ohlone College ID number.

Important testing information:
- Testing is offered free of charge.
- Students should plan to take the tests as early in the semester as possible because seating is limited.
- Students should meet outside the room indicated on the Placement Testing schedule in the Class Schedule.
- Students must arrive 15 minutes early for the test.
- Late students are not admitted.
- Re-testing is generally allowed one year after the initial testing.

NEW STUDENT ORIENTATION
Building 1, first floor
(510) 659-6036
orientation@ohlone.edu
http://www.ohlone.edu/org/counseling/orientation.html

Attending a New Student Orientation is a great way to learn more about the programs and services offered at Ohlone College that will support a student’s educational and personal objectives. Students who are new to college have many questions regarding class selection, how to register for classes, what the workload will be like, and how to get involved in campus life. Information provided during Orientation will answer these questions and help new students make a smooth transition to college. Orientation also helps students become familiar with the campus, learn where different campus services are offered, and get direct help from counselors, learn about four year colleges and universities, and take the mystery out of getting a college education.

Topics addressed at Orientation include the following:
- Information about Ohlone College, services available to students, and academic departments;
- Determining English and math placements;
- Requirements for an associate degree, certificates, and transfer to four-year colleges and universities;
- One-on-one advising with an Ohlone College counselor to develop an educational plan based on student objectives and placement test results;
- Creating individual class schedules;
- Support services available

New students are required to participate in an orientation session before registering for classes. A complete list of orientation exemption criteria is available online at http://www.ohlone.edu/org/counseling/orientation.html and in the current Class Schedule.

Students have a variety of Orientation options
- Complete the Online Orientation;
- Attend an In-Person College Orientation;
- Complete a Personal Development (PD) course;
- Attend an ESL (English as a Second Language) Placement Test and Orientation session.

Students will receive additional information about Orientations, as well as a list of Orientation dates, when they take the Placement Tests. This information is also available on the Orientation Web site at http://www.ohlone.edu/org/counseling/orientation.html
The K-12 Enrollment Process

Follow these steps to complete the Ohlone College K-12 Enrollment Process by computer or on paper.

APPLY ONLINE

- OR -

APPLY VIA A PAPER APPLICATION

TAKE PLACEMENT TESTS
(for ESL, English, and Math Prerequisites)

REGISTER FOR CLASSES

PAY FOR CLASSES
Payment due upon registration

PREPARE FOR CLASSES

• Complete an online Ohlone College application at https://webadvisor.ohlone.edu/.
• Obtain a K-9 or 10-12 permission packet online at www.ohlone.edu/org/admissions/highschool.html.
• Print the signature pages and obtain necessary signatures.
• Submit the signature pages and Health Waiver to the Office of Admissions and Records. All materials should be submitted by the deadline in the Academic Calendar in the Class Schedule in order to ensure the earliest possible registration.
• Receive a student ID number 2-3 business days after submission of all application materials via e-mail or by calling the Office of Admissions and Records at (510) 659-6100 if an e-mail address is not available.
• Set up a WebAdvisor account at https://webadvisor.ohlone.edu to register, add, drop, waitlist, and pay for classes online.

• Complete an Ohlone College paper application.
• Obtain a K-9 or 10-12 permission packet at the Information Center (Building 1 Lobby) on the Fremont campus or from any district high school.
• Obtain necessary signatures on signature pages.
• Submit the paper application, all signature pages, and the Health Waiver together as one packet to the Office of Admissions and Records by the deadline in the Academic Calendar in the Class Schedule in order to ensure the earliest possible registration time.
• Receive a student ID number 2-3 business days after submission of all application materials via e-mail or by calling the Office of Admissions and Records at (510) 659-6100 if an e-mail address is not available.
• Set up a WebAdvisor account at https://webadvisor.ohlone.edu to register, add, drop, waitlist, and pay for classes online.

• Take the required placement tests. Placement testing is required for all students enrolling in English or math classes or classes with an English or math prerequisite. Per Title 5 of the California Education Code, K-12 classes cannot be used to meet college prerequisites.

• Register for classes online via WebAdvisor (https://webadvisor.ohlone.edu).
• OR, if a class is filled
• Add to the waitlist and attend the first class session.

PLEASE NOTE: Submitting the Ohlone College application and permission packet does not register students for classes. Registration is accomplished online via WebAdvisor.

• Pay online by Visa or MasterCard at https://webadvisor.ohlone.edu.
• Pay by check by using the Drop Box in the Lobby of Building 1.
• Pay by cash at the Cashier’s Window in Building 1, second floor.

• Print a copy of the class schedule from WebAdvisor to confirm registration and check for errors.
• Then
• Purchase books by going online to www.ohlonebookstore.com or visiting the Ohlone College Bookstore on the Fremont campus.

PLEASE NOTE: Grades received at Ohlone College become part of a permanent college record and college transcript. K-12 students will be expected to participate at a college level.
REGISTRATION INFORMATION

Class Schedule
The Ohlone College Class Schedule, published three times a year (Summer/Fall, Fall, and Spring), includes application and registration procedures, class offerings, Academic Calendar dates, and program and general information. Schedules are mailed to continuing students and are also available from the Ohlone College Bookstore, Fremont and Newark city libraries, and other community locations. The Class Schedule is also available online via WebAdvisor at https://webadvisor.ohlone.edu.

Schedule for Registration
Continuing students are assigned the earliest registration times and appointments based on having a declared academic program (major) and by the number of Ohlone units earned toward that program. Registration appointments are e-mailed to students prior to the start of registration.

New and former students receive the next opportunity to register but do not receive specific appointments. New and former students cannot register for classes until they have completed the admission process.

K-12 students receive the last opportunity to register, starting approximately two weeks before the beginning of the term.

Registration Procedures
Students should acquaint themselves with Ohlone College registration policies by studying the information in this Catalog, the Class Schedule, and registration materials supplied by the Office of Admissions and Records, Counseling, and the Information Center. Registration dates are published in the Academic Calendar in the Class Schedule. Offices are open for extended hours several days before and after the start of each term in order to assist students. Students register for classes online via WebAdvisor (https://webadvisor.ohlone.edu). Registration by proxy is permissible with written permission from the student.

Prerequisites Taken at Another College or University
Students who have completed course prerequisites at another college or university will need to meet with an Ohlone counselor to determine if the coursework can be used to waive the Ohlone prerequisite(s). The counselor will need to review the student’s transcript. Information about clearing prerequisites is available online at http://www.ohlone.edu/org/counseling/aboutcounseling/clearprereqs.html. Students may contact the Counseling Department at (510) 659-6110. If the counselor determines that the student has successfully met the course prerequisite(s), the counselor will enter a waiver in the student database and the student can register for the course online via WebAdvisor.

WEBAdvisor (https://webadvisor.ohlone.edu)
WebAdvisor is Ohlone’s online academic management system, and is available for free to all current Ohlone students. WebAdvisor is the most convenient way to register for classes, add and drop classes, add to a waitlist, submit payments, and check grades. Students can go online to WebAdvisor and have access to their student schedule, financial aid information, balance, and grades. WebAdvisor also offers the most current class information. Students can go online to https://webadvisor.ohlone.edu to set up a free WebAdvisor account after their application has been completed and they have received a Student ID number from the Office of Admissions and Records.

How to Create a WebAdvisor Account
1. Go to the Ohlone College Web page (www.ohlone.edu) after receiving the e-mail from Admissions and Records that the application has been completed.
2. Click on the WebAdvisor link on the top right hand corner of the Ohlone College Home page.
3. Click on “Sign up for WebAdvisor access. It’s FREE!”
4. Click on “I need an Ohlone College Web Services Account” under Step 2.
5. Enter the Colleague ID Number (Student ID number), as well as the first name, last name, birth date, and zip code exactly as they were entered on the application.
6. Click on Submit.
7. Enter a security question and the answer to that question. Students should choose a question and answer that will never be forgotten. For example, “What month was I born in?” or “What is my mother’s maiden name?”
8. Enter a six digit password.

Students who receive an error message after Step #6 indicating that they have entered invalid data need to contact the Office of Admissions and Records so they can verify the data in the student record. Students may contact Admissions and Records at (510) 659-6100 or by e-mail at admissions@ohlone.edu.

Registering for Classes
Students register for classes online via WebAdvisor (https://webadvisor.ohlone.edu). Students cannot register before their scheduled registration time. Students are also prevented from registering if they have an outstanding balance, incomplete application, or need to submit a new application. Students should meet with an Ohlone College counselor if they need help choosing their classes. Students may make an appointment with a counselor by calling (510) 659-6110, going to http://www.ohlone.edu/org/counseling/aboutcounseling/online-appt.html, or by going to the Counseling Window (Building 1, first floor).

How to Register for Classes
1. Go to WebAdvisor (https://webadvisor.ohlone.edu) after creating a WebAdvisor account.
2. Click on Students
3. Click on Log In.
4. Enter the User ID and Password. Students who have forgotten their User ID can verify the data in the student record. Students may contact Admissions and Records at (510) 659-6100 or by e-mail at admissions@ohlone.edu.
5. Go to the Registration section on the left side.
6. Click on Register for Sections.
7. Click on the appropriate option. Choose Search and Register for Sections if the exact classes are known. Choose Express Registration if the exact class information is already known.
8. Enter the term and the class information and hit Submit.
9. Choose the desired action (Register, Remove from List, or Waitlist) and hit Submit.

If there is an error preventing registration such as unmet prerequisites, time conflicts, or overload issues, an error message will appear at the top of the WebAdvisor screen. Students may call Admissions and Records at (510) 659-6100 for help understanding an error message.
Waitlisting

Waitlisting is a way to electronically stand in line for a filled class. During the registration period students may place themselves on waitlists for specific classes which are filled. When a class is filled, students will be asked if they want to add to the waitlist. Once a vacancy becomes available, students on the waitlist will be added to the class and notified by e-mail. Students are added to the class from the waitlist in the order they were added on the waitlist. Students who have errors preventing registration such as an outstanding balance, unmet prerequisites, class conflicts, or overload issues will not be added into a class from the waitlist even if space is available in the class. These students will be e-mailed of the error preventing registration into the class from the waitlist and given information as how to resolve the error.

Students should be sure to attend the first class session if they are on a waitlist, as students who do not attend the first class session may not be added into the class from the waitlist by the instructor. Students who decide not to take a class they have waitlisted should be certain to drop themselves from the waitlist, as they will be subject to any fees and grades for courses in which they are registered from the waitlist.

Adding Classes (Registration After the Start of Class)

Up through the 10% point of the class students may add full-term classes, where space is available, using WebAdvisor. After that date students may only add full-term classes by submitting an Add/Drop form with the instructor’s signature to Admissions and Records. Students should refer to the Academic Calendar in the Class Schedule for more information. All Add/Drop forms must be returned to the Office of Admissions and Records Office or the Admissions and Records Drop Box in the Building 1 Lobby on or before the last day to add classes. Per Title 5 of the California Education Code, students cannot add classes after the last day to drop with a W.

Dropping Classes or Withdrawing

Students can drop classes via WebAdvisor through 75% of the class or by bringing a completed Add/Drop Form to the Office of Admissions and Records. Students will receive a W grade if they drop a class after the last day to drop without a W. However, W grades are not considered punitive and students are always encouraged to drop classes in which they are not doing well and are concerned that they may receive a failing grade. Classes cannot be dropped after the deadline to receive a W and will result in a required letter grade (A-F).

Students may be dropped from classes by the instructor if they do not attend the first or second class meeting or for excessive absences. However, students are ultimately responsible for withdrawing from a class that they no longer plan to attend. Failure to do so can result in a failing grade being issued by the instructor.

Cross Registration – California State University, East Bay

Through the efforts of the Regional Association of East Bay Colleges and Universities, a cross registration plan has been worked out with California State University, East Bay. Under this plan qualified Ohlone College students may be allowed to enroll in one to three undergraduate courses at California State University, East Bay. Interested students should consult with an Ohlone counselor to obtain further information about guidelines, requirements, and procedures for registration.

REVISION OF REGULATIONS

Any regulations issued by the Administration of the College shall have the same force as those printed in this catalog and shall supercede, after notice has been made, any ruling on the same subject that may appear in the printed Catalog or other official bulletins of the College.

Ohlone College exists to serve residents of the cities of Fremont, Newark, and the Bay Area. Every effort is made to provide the information and services needed to facilitate successful attendance at Ohlone College. Students are individually held responsible for information contained in this catalog and in the Class Schedule. Failure to read and comply with policies, regulations, and procedures contained therein will not exempt a student from whatever penalties the student may incur.
Ohlone College provides services and programs that enhance a student’s use of college offerings and facilitate progress toward academic, career, personal, and social goals. Ohlone College staff are committed to each student’s success and growth as a person.

Student Services coordinates with all areas of the Ohlone campus to provide a college experience that is meaningful for students. Most Student Services offices are located in Building 1. The Cafeteria is located in the Hochler Student Center, Building 5; Athletics offices are located in the Epler Gymnasium, Building 9; and the Student Health Center is in Building 16.

The Vice President, Student Development serves as administrator for student services. Students are encouraged to contact the Vice President, Student Development for information and assistance.

**ADMISSIONS AND RECORDS**

Building 1, first floor  
(510) 659-6100  
admissions@ohlone.edu  
http://www.ohlone.edu/org/admissions/

The major objective of the Office of Admissions and Records is to provide for the admission and registration of all students. In addition, the Admissions and Records Office is responsible for maintaining accurate attendance and academic records. Admissions and Records also assists students with certifying completion of certificate and degree requirements; general education and IGETC certification; processing transcript requests and enrollment verifications; determining residency; and assisting with registration.

**ATHLETICS**

Building 9  
(510) 659-6044  
http://www.ohlone.edu/org/athletics

Ohlone College is a member of the Coast Conference. Ohlone College’s intercollegiate athletic programs include women’s basketball, soccer, softball, swimming, volleyball, and water polo and men’s baseball, basketball, soccer, swimming, and water polo. Student-athletes who are interested in participating in an intercollegiate sport should contact the respective sport coach or the Athletics Department Office.

Ohlone College subscribes to the Community College League of California (CCLC) Athletic Code. That code includes in its rules a ban on the recruitment of students who reside out of state. Student-athletes who choose to participate in Ohlone’s intercollegiate athletic program must meet all eligibility requirements as described in the CCLC Athletics Code.
BOOKSTORE

Building 5, first floor
(510) 659-6061
http://www.ohlonebookstore.com

The Ohlone College Bookstore is owned and operated by the Ohlone Community College District and is located in the Hochler Student Center (Building 5, first floor) on the Fremont campus. The Bookstore’s primary responsibility is to serve the students and faculty of Ohlone College by providing textbooks and course materials. The Bookstore also carries general books, greeting cards, gifts, clothing, and a variety of other merchandise and snack foods. For further information, hours of operation, and Bookstore policies please visit the Bookstore’s Web site at www.ohlonebookstore.com or call (510) 659-6061.

CAMPUS ACTIVITIES

Building 1, first floor, Window 1140
(510) 659-6255
http://www.ohlone.edu/org/campusactivities/

The Campus Activities Office provides opportunities for student involvement at Ohlone College through social and cultural programs, student leadership training, and annual campus events such as Welcome Day and the Graduation Reception. The Campus Activities staff advise student government (ASOC), student clubs, and produce co-curricular activities. Students may check with the Campus Activities Office, Building 1, Room 1140, (510) 659-6255, for more information about organized student programs and clubs, or visit http://www.ohlone.edu/-org/campusactivities/.

Student Government

Also known as the Associated Students of Ohlone College, ASOC is the voice of the students in the governance of the College. Every Spring the executive board of President, Vice President, Treasurer, Secretary, Representative at Large, Legislative Representative, and Student Trustee are elected by a majority vote of the student body. During Fall and Spring Semesters, students can elect to participate in student government by filling out the petition to be a Senator. All students are encouraged to participate. Meetings and leadership training are mandatory and are held every Tuesday from 4:00pm-6:00pm. For more information, stop by Campus Activities in Building 1, Room 1140 or visit http://www.ohlone.edu/org/asoc/

Student Ambassador Program

Student Ambassadors are Ohlone students who help in recruiting and College relations. Specially selected and instructed, these students also receive financial rewards for their efforts. Students may call Campus Activities at (510) 659-6255, visit their Web site at http://www.ohlone.edu/ambassador/ or stop by Building 1, Room 1136 for more information.

Cafeteria and Vending Services

Building 5, second floor
http://www.ohlone.edu/core/foodservices.html

The College contracts with a food service company, a food vending machine company, and a beverage vending company to provide food to Ohlone students. Commissions are given to ASOC to help provide co-curricular events. Cafeteria service is provided Monday through Thursday from 7:30am-7:00pm and Friday from 7:30am-2:00pm. These hours are tentative and students should call (510) 659-6000 ext. 5075 for complete hours of operation. The Cafeteria is closed during holidays and semester breaks. Refunds from the food and beverage vending machines are available through the food service cashiers in the Cafeteria.

Housing

Listings for local housing opportunities are posted in the Cafeteria Lobby (Building 5, second floor). Listings include rooms, apartments, and houses to rent or share. All arrangements are made between the owner and the student, as facilities are neither sponsored nor supervised by the College. Housing cards are available from the Information Center in the Lobby of Building 1 on the Fremont campus.

Clubs and Organizations

Clubs and co-curricular activities are a great way to become involved and meet people with similar interests. Participation offers opportunities to learn leadership and life skills that enrich the educational experience at Ohlone College. For advisor and student leader names for the clubs listed below, contact the Campus Activities office in Building 1, Room 1140, visit their Web site at http://www.ohlone.edu/org/campusactivities/, or call (510) 659-6255.

Clubs

African American Student Alliance
Alpha Gamma Sigma
Animated Entertainment Society
Asian Pacific American Student Association
Chinese Student Association
Circle K International
Deaf Voice
Desi Corner
Engineering Club
Film Club
Gamers Association
Gay Straight Alliance
Interact/Rotary of Ohlone College
International Students Club
Kickboxing Club
Liberated Individuals for the Environment (L.I.F.E.)
Math League Club
Movimiento Estudiantil Chicano de Aztlan (MEChA)
Muslim Student Association
Ohlone College Psychology Club
Ohlone Navigators
Respiratory Therapy Club
Speech and Communications Club
Student Ambassadors
Unicef Club

Co-curricular Activities

Art Gallery
Ceramics Guild
Chamber Singers
College Chorus
Community Chorale
Community Orchestra
Drama (acting and technical)
Jazz Ensemble
KOHL Radio
KOHL TV
Monitor (student newspaper)
Ohlone Wind Orchestra

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CAMPUS POLICE/SAFETY AND SECURITY SERVICES

Building 20, first floor
(510) 659-6111
http://www.ohlone.edu/org/security/

The Ohlone College Police Services, known as Campus Police Services (CPS) and Safety and Security, was established by Board of Trustees Resolution 63-74-75. The officers are trained, and the training reimbursed, per Commission of Peace Officer Standards and Training Guidelines, Resolution 66-81-82. The College is committed to full implementation of the Student Right to Know and Campus Safety Act of 1990 (Clery Act).

The responsibilities of Campus Police Services include campus security, traffic, parking control, prevention and detection of crime, and enforcement of federal, state, and municipal laws. Campus Police Services has the primary responsibility for directing, planning, and controlling vehicle and pedestrian traffic on College grounds. Campus Police Services oversee the painting of roadways and curbs, placement of control signs, removal of hazardous obstructions, and other related tasks.

Campus Police and/or Safety Officers are available while classes are in session and from 7:00am-10:00pm on weekends. The Campus Police Services’ Office is located in Building 20 and is open from 8:00am-10:00pm Monday-Friday. Campus Police Services personnel are not available during district holidays. 24-hour contact is available with Ohlone Campus Police and/or college staff.

To contact Campus Police Services
- Dial 6111 from campus phones. There are emergency phones located outside on the second floors of Buildings 2, 4, 6, and 8 that directly connect to Campus Safety and Security.
- Dial *81 from campus payphones. There is no charge to call Campus Police Services from a campus pay phone.
- Dial (510) 659-6111 from off-campus phones and off-campus pay phones.
- For medical emergencies on campus, do not hesitate to call 911 and then notify Campus Police Services.

All in-coming calls are handled as soon as possible. Campus Police Services personnel make reports of crimes and other emergencies to which they respond.

Parking

Parking permits may be purchased for each semester and cost $26 for Fall semester, $26 for Spring semester, and $15 for Summer term. Motorcycle parking permits may also be purchased for each semester and cost $15 for Fall semester, $15 for Spring semester, and $8 for Summer term. One-day permits may also be purchased for $2.00 at vending machines located in parking lots C, D, H, and M.

The parking fee structure and policies are currently under review and are subject to change.

Parking permits are required Monday-Friday from 5:00am-11:00pm and on Saturday from 5:00am-5:00pm. Daily permits should be displayed on the dashboard and semester permits must hang from the rearview mirror. Parking policies are listed in detail in the Policies and Procedures section of this catalog.

Free Parking

Free parking is available on Saturdays after 5:00pm, Sundays, and holidays in marked stalls only. The exception to this policy is Flea Market weekends. Disabled parking lots are enforced 7 days a week and 24 hours a day without exception.

COUNSELING DEPARTMENT

Building 1, first floor
(510) 659-6110
http://www.ohlone.edu/org/counseling

Counselors meet with students individually, in small groups, workshops, and in classes to help students in achieving their academic goals and personal growth. Counselors are educated to directly assist students with a wide range of issues and are knowledgeable about other helpful resources at Ohlone and in the community. Counselors can provide career information and assessment, orientation, and other general counseling services. Counselors have current college transfer information and help students with transfer plans. Personal counseling services are offered in the Student Health Center. For an appointment for personal counseling, please call the Student Health Center at (510) 659-6258 or drop by Building 16.

College counseling is intended to help students assess their current abilities and interests and to make realistic plans to achieve academic and vocational goals. Students can best reach their goals with a solid educational program of study that can be developed by working with an Ohlone College counselor. Counselors work with students on an on-going basis to develop a program of study that reflects the student’s interests, skills, and motivation.

New Students’ Responsibilities Regarding Counseling

New students need to follow all steps for enrollment, complete placement testing, and attend orientation (as necessary). Students who are using placement test results from another community college need to submit official documents showing their course placement as well as including contact information of a college official (counselor or placement test coordinator). Students should prepare for a counseling session by bringing unofficial copies of all previously attended post-secondary institutions and doing some initial exploratory research with regard to short and long-term goals. Students who want to transfer should identify several institutions they are considering.

Continuing Students’ Responsibilities Regarding Counseling

Continuing students should prepare an “Academic Portfolio” folder related to their educational goals and should keep any papers completed during their counseling appointments in this folder. Petitions, contracts, or letters that have been submitted or received should also be kept in this folder. Students should bring their “Academic Portfolio” folder to every counseling appointment. Students wishing to transfer should be aware of important deadlines, both at Ohlone and the transfer institution, and should solidify their campus choices and confirm these institutions’ requirements for transfer, major options, required lower division courses, and required Grade Point Average. Continuing students should also take advantage of Ohlone’s Student Success Center and campus events and workshops.

Ohlone College also has counselors to work with deaf, learning disabled, and students with disabilities. In addition, bilingual counselors may be available to work with non-native English speakers (or ESL) students.

Photo courtesy of Shelby Auer.

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All interested students may stop by the Counseling Department in Building 1, first floor or may call (510) 659-6110 to make an appointment or obtain more information. Students may also go online to http://www.ohlone.edu/org/-counseling/aboutcounseling/onlineappt.html to make a counseling appointment. Appointments are 30 minutes in length and students are asked to have realistic expectations of what can be accomplished in this time. Students can learn more about specific counselors by visiting the Counseling Department Web page at http://www.ohlone.edu/org/counseling/ or by speaking to the Counseling staff.

Services for Re-entry Adults

All counselors are sensitive to the special needs of the mature student who may be reentering the educational system. Ohlone College offers a wide range of programs and services relating to academic, career, and personal needs.

DISABLED STUDENTS PROGRAMS AND SERVICES (DSPS)

Building 5, first floor
(510) 659-6079
http://www.ohlone.edu/org/dsp

Disabled Students Programs and Services (DSPS) is designed to open the doors to educational and occupational opportunities for students with disabilities. Specialized services and educational accommodations are provided to students with disabilities to help them achieve their educational and vocational goals. Services available include counseling; placement testing; priority registration; testing for learning disability services eligibility; college and campus orientations; specialized personal and educational development classes; adaptive physical education (APE) classes; and job placement assistance. Educational accommodations provided are based on individual students’ needs and include American Sign Language and oral interpreting, real time captioning, extended time for tests, books on tape, readers, note takers, amplification systems, tape recorders, talking calculators, a variety of alternate media, and an adaptive computer lab.

Parking for students with permanent or temporary physical disabilities is also available. Students parking in disabled parking places must have both a regular Ohlone College parking permit, purchased at the Ohlone College Bookstore, and a Disabled Student parking permit, issued from the DSPS Office. Appropriate medical verification must be provided to the DSPS Office before a Disabled Student parking permit can be issued. Both parking permits must be displayed when using the disabled parking places or a citation will be issued.

DSPS maintains a close working relationship with the Department of Rehabilitation (DOR) through frequent contacts with students’ DOR counselors and through the WorkAbility III Program. WorkAbility III offers pre-employment classes, vocational awareness classes, work experience opportunities, a Job Club for direct job placement, and post-employment follow up for clients of DOR.

Students with disabilities are encouraged to use the resources of DSPS and should contact DSPS as soon as they decide to come to Ohlone so that services and accommodations can be arranged. Students must provide current documentation indicating the nature of the disability in order to receive services. The DSPS staff is happy to assist students toward success as Ohlone students, in their careers, and in community life.

EXTENDED OPPORTUNITY PROGRAMS AND SERVICES (EOPS)

Building 1, first floor, Room 1140
(510) 659-6152
http://www.ohlone.edu/org/eops/

The Extended Opportunity Programs and Services (EOPS) provides educational opportunities and support to low income, educationally disadvantaged, non-traditional students in their efforts to succeed in their educational and career goals.

To be eligible for EOPS a student must meet the following criteria:

- be a California resident;
- be enrolled as a full time student (12 or more units per semester);
- have completed fewer than 70-degree applicable semester units;
- qualify for a Board of Governors Waiver (BOGW); and
- meet income and educational requirement guidelines.

As participants in EOPS, students receive a range of services such as academic advising and vocational and career counseling from EOPS counselors who are sensitive to multi-cultural issues and the unique needs of EOPS students. This counseling also includes the development of an educational plan for each student that meets the student’s specific educational goals.

Other EOPS services include priority registration, guidance in completing registration and financial aid forms, mid-semester progress reports, book vouchers, grants, and tutoring. Students planning on transferring to four-year institutions can receive assistance in completing the transfer process, filing Transfer Admission Agreements (TAA) and Transfer Admission Guarantees (TAG), guidance in college selection, letters of recommendation, and fee waivers for University of California and California State University applications.

EOPS students may also participate in a range of other activities such as campus tours, student development conferences and workshops, the EOPS Annual Awards Ceremony, and other educationally enriching events.

Applications for entry into the EOPS program are accepted throughout the year, but students are encouraged to apply during their first semester at Ohlone. Applications are available in Building 1, Room 1140 during regular business hours.

Cooperative Agencies Resources for Education Program (CARE)

CARE is a program within EOPS specifically designed for single parents who are participating in Alameda County’s CalWORKs program; receiving Temporary Assistance for Needy Families (TANF) benefits (formerly Aid For Dependent Children, AFDC); and who have children under fourteen years of age. The CARE Program is a unique educational program that represents a cooperative effort between the Department of Social Services, the Employment Development Department, and Ohlone College. Its goal is to assist single parents in achieving their educational and/or career goals.

In addition to all EOPS services and opportunities, CARE offers its students additional services including support groups, peer advising, and special workshops. CARE students also receive car service vouchers, parking permits or assistance with their transportation, and assistance with child care expenses.

Students interested in receiving CARE services must first be EOPS students, participate in the county’s CalWORKs program, and receive TANF benefits. Interested students should complete the EOPS application available in Building 1, Room 1140.

CalWORKs Program (California Work Opportunity and Responsibility to Kids)

The CalWORKs program at Ohlone College encourages personal responsibility and accountability. The CalWORKs program is committed to helping individuals receive education and instruction that will provide employment opportunities. CalWORKs promotes short-term training as well as lifelong learning. The ultimate goal of the program is to assist CalWORKs students with vocational and educational training programs that will lead to self-sufficiency. The CalWORKs program at Ohlone College has been developed in partnership with the Alameda County Department of Social Services.

CalWORKs students receive the following services: assessment of academic, vocational, and/or career choices; academic advising and the development of a county approved educational plan; academic and career advising; child care assistance; and short-term and long-term job placement assistance.

To be eligible for CalWORKs services, students must participate in Alameda County’s CalWORKs program and have signed a welfare-to-work plan. For more information please call (510) 659-6152 or (510) 979-7551 or visit Building 1, Room 1140.
INTERNATIONAL PROGRAMS AND SERVICES

Building 1
(510) 659-6439
http://www.ohlone.edu/org/international/

Ohlone College is home to a diverse community of international students. The Office of International Programs and Services (OIPS) assists international students who are applying to and attending Ohlone College. An international student is considered to be any student in need of an F-1 Student Visa, or currently holding one. The services OIPS provides international students and their families include international admissions counseling, application processing, immigration regulation advisement, international student orientation, Optional Practical Training administration, Curricular Practical Training administration, and advisement on transfer to a 4-year university. OIPS also assists with the administration of Ohlone College’s Study Abroad programs for American and international students.

For more information on Ohlone College’s Office of International Programs and Services please visit http://www.ohlone.edu/org/international/. To speak with an office representative call (510) 659-6439. E-mail contact information is also available online at http://www.ohlone.edu/org/international/.

STUDENT HEALTH CENTER

Building 16
(510) 659-6268
http://www.ohlone.edu/org/healthctr

The Ohlone Student Health Center is provided through a collaborative effort by Washington Township Health Care District and the Ohlone Community College District. The Student Health Center is supported in whole by the Student Health Services Fee. The health services fee provides primary care for minor illnesses and injury by a nurse practitioner and also provides over the counter medications, physicals, and health education materials and videos. There are also physician hours on campus by referral. Low cost services include pregnancy testing, immunizations, flu shots, TB tests, lab work, and GYN exams. The Student Health Center is located in Building 16. Hours of operation are Monday-Thursday 9:00am-2:00pm and 4:00pm-6:00pm. For appointments or information call (510) 659-6258 or go to www.ohlone.edu/org/healthctr.

Student Health Center Personal and Mental Health Counseling

The Student Health Center offers free assessment, short-term personal counseling, and community referral to individuals, couples, and support groups. These services focus on assisting individuals to discover how best to address and manage personal concerns and make positive change to enhance academic and personal success. These counseling opportunities build on personal strengths and promote emotional well-being. To make an appointment to see a personal counselor please call the Student Health Center at (510) 659-6258 or drop by Building 16.

Common reasons why students seek counseling include:

- Anger Management
- Anxiety
- Assertiveness
- Depression
- Eating Disorders/Body Image
- Grief and Loss
- Interpersonal Communication
- Relationship Conflicts
- Self-Esteem
- Sexual Identity
- Stress Management
- Substance Abuse
- Success
- Time Management

FINANCIAL AID

Building 1, first floor, Windows 6, 7
(510) 659-6150
http://www.ohlone.edu/org/finaid

The Financial Aid Office assists students in meeting educational costs while attending Ohlone College. Financial aid at Ohlone College is administered in accordance with nationally established policies and philosophy. Students are encouraged to apply early by using the Free Application for Federal Student Aid (FAFSA), as some financial aid funds are limited. The priority deadline is March 2. In addition, Ohlone College is required by state and federal regulations to ensure that funds are awarded to students who demonstrate the greatest financial need. Students should complete the FAFSA online at http://www.fafsa.ed.gov.

Ohlone College participates in Title IV federal and California student financial aid programs. There are basically two types of financial aid: grant and self-help (such as work study and loans). Grants are awarded based on financial need and do not require repayment. Work Study students earn financial aid by working a part-time job. Loans are aid that must be repaid at a low-interest rate. In addition, private and institutional scholarships are available. Ohlone College also has an Emergency Short-Term Loan program.

Students who have graduated from high school (or received a GED or passed the Ability to Benefit exam), have a declared academic program, and are enrolled in classes may qualify for some type of financial aid. Most programs require a student to be enrolled in a minimum of six units. Financial aid students are expected to maintain satisfactory academic progress toward their educational goal. To do so, students must complete a minimum of 67% of their attempted units and earn a cumulative grade point average of 2.0 or better. For assistance or information, students should visit the Financial Aid Office or send an e-mail to financial_aid@ohlone.edu. Please see the Types of Financial Aid chart on page 26 for the financial aid available at Ohlone College.

Community Contributors

Many community groups and individuals contribute to scholarships and loan programs for Ohlone College students. The following is a listing, presented with appreciation:

Andrew Hill High School
California Mathematics Council
California Society CPA Institute
California State Young American Bowling Alliance
Catholic Charities/Leaders for CD
Choctaw Nation of Oklahoma
Clara Abbott Foundation
Community Foundation of Silicon Valley
Dolores Warren/Bay Area Black Nurses Association
El Camino Hospital Auxiliary
First Presbyterian Church
Foundation of National Student Nurses
Foundation of the First Calvary
Hillman Memorial Scholarship Fund
Holiday Bowl
Kiwianis Club of Fremont
Lee Foundation, Singapore
National Service Award
Oakland Zoo
Parents Without Partners
San Carlos Apache Tribe
San Francisco Foundation/Sutter Scholars
San Tomas Voiture 365 40 et 8 Nursing Scholarship
St. John Missionary Church
St. John's Unified School District
Sunny Hills Children Garden

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## TYPES OF FINANCIAL AID

<table>
<thead>
<tr>
<th>Type of Aid</th>
<th>Amount (per year)</th>
<th>Student Eligibility</th>
<th>Required Forms</th>
<th>Must Apply By:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRANTS</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Board of Governors Fee Waiver (BOG)</td>
<td>Enrollment fee</td>
<td>CA resident, financial need</td>
<td>FAFSA or BOG Application</td>
<td>On-going throughout academic year</td>
</tr>
<tr>
<td>Federal Pell Grant</td>
<td>$400-$4,050</td>
<td>High financial need</td>
<td>FAFSA and other documents required by Financial Aid Office</td>
<td>On-going throughout academic year</td>
</tr>
<tr>
<td>Federal Supplemental Educational</td>
<td>Up to $1,200</td>
<td>Exceptional financial need, enrolled at least 1/2 time</td>
<td>FAFSA and other documents required by Financial Aid Office</td>
<td>Depending upon availability of funds</td>
</tr>
<tr>
<td>Opportunity Grant (FSEOG)</td>
<td></td>
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</tr>
<tr>
<td>State Cal Grant A</td>
<td>Awarded after</td>
<td>CA resident, financial need, GPA criteria, enrolled at least 1/2 time</td>
<td>FAFSA, GPA verification, other documents required by Financial Aid Office</td>
<td>March 2, September 2 (competitive only)</td>
</tr>
<tr>
<td></td>
<td>transfer to 4-year</td>
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<td></td>
</tr>
<tr>
<td>State Cal Grant B</td>
<td>Up to $1,551</td>
<td>CA resident, financial need, GPA criteria, enrolled at least 1/2 time</td>
<td>FAFSA, GPA verification, other documents required by Financial Aid Office</td>
<td>March 2, September 2 (competitive only)</td>
</tr>
<tr>
<td>State Cal Grant C</td>
<td>Up to $576</td>
<td>CA resident, financial need, GPA criteria, vocational program, enrolled at least 1/2</td>
<td>FAFSA, GPA verification, other documents required by Financial Aid Office</td>
<td>March 2, September 2 (competitive only)</td>
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<td></td>
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<td>time</td>
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<tr>
<td><strong>SELF-HELP AID</strong></td>
<td></td>
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</tr>
<tr>
<td>Federal Work Study</td>
<td>Up to $4,500</td>
<td>High financial need, enrolled at least 1/2 time</td>
<td>FAFSA and other documents required by Financial Aid Office</td>
<td>Dependent upon available positions</td>
</tr>
<tr>
<td></td>
<td>depending upon</td>
<td></td>
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<tr>
<td></td>
<td>hours worked and</td>
<td></td>
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<td></td>
<td>eligibility</td>
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<tr>
<td><strong>LOAN</strong></td>
<td></td>
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<tr>
<td>Federal Stafford Loan –</td>
<td>Base amount up to</td>
<td>Financial need, enrolled at least 1/2 time. U.S. Dept. of Education pays interest</td>
<td>FAFSA, other documents required by Financial Aid Office, loan counseling,</td>
<td>On-going throughout academic year</td>
</tr>
<tr>
<td>Subsidized</td>
<td>$2,625 for freshman; $3,500 for s</td>
<td>while borrower is in school</td>
<td>loan application</td>
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<td>ome level</td>
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</tr>
<tr>
<td>Federal Stafford Loan – Unsubsidized</td>
<td>Base amount not</td>
<td>Enrolled at least 1/2 time. Interest begins accruing at the time of the loan</td>
<td>FAFSA, other documents required by Financial Aid Office, loan counseling,</td>
<td>On-going throughout academic year</td>
</tr>
<tr>
<td></td>
<td>subsidized</td>
<td></td>
<td>loan application</td>
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<td></td>
<td>eligible, or</td>
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<td></td>
<td>additional $4,000</td>
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<td></td>
<td>for independent</td>
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<tr>
<td></td>
<td>students</td>
<td></td>
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<tr>
<td>Emergency Short-Term Loan</td>
<td>Up to $200 per</td>
<td>Enrolled at least 1/2 time, good repayment history, may require co-signor</td>
<td>Emergency Short-Term Loan Application</td>
<td>Fall and Spring terms only</td>
</tr>
<tr>
<td></td>
<td>loan, maximum</td>
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<td>two loans per</td>
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<td>semester</td>
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<tr>
<td><strong>SCHOLARSHIPS</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Associated Students of Ohlone</td>
<td>Amounts vary</td>
<td>Based on criteria established by donor organization</td>
<td>Ohlone College Scholarship Application</td>
<td>Deadlines vary</td>
</tr>
<tr>
<td>College (ASOC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ohlone College Foundation</td>
<td>Amounts vary</td>
<td>Based on criteria established by donor organization</td>
<td>Foundation Scholarship Application</td>
<td>Deadlines vary</td>
</tr>
<tr>
<td>Outside scholarships</td>
<td>Amounts vary</td>
<td>Based on criteria established by donor organization</td>
<td>Organization’s application</td>
<td>Deadlines vary</td>
</tr>
</tbody>
</table>
STUDENT SUCCESS CENTER

Building 1
(510) 979-7555
http://www.ohlone.edu/org/transfer

The Transfer Center provides resources to students wishing to explore college and university transfer information. College and university recruiters come to the Transfer Center to meet with prospective students. Students can make an appointment to meet individually with a recruiter in the Transfer Center. Students are encouraged to drop-in at the Transfer Center in Building 1, first floor, Room 1102C.

Ohlone’s Transfer Center also includes a resource library with current catalogs from California State University (CSU) campuses, University of California (UC) campuses, and other colleges and universities. Workshops are available on topics such as “CSU and UC Applications – The How-To of Completing a Successful Application,” “How to Write the Personal Statement for UC Applications,” and others.

Students intending to transfer to four-year colleges and universities may complete their lower division (freshman and sophomore) general education requirements and many lower division major field courses while at Ohlone College. Many courses offered at Ohlone have been articulated with University of California campuses, California State University campuses, and private institutions. Students are encouraged to see the advice of their counselor in order to develop a specific transfer plan.

Ohlone College has also established various academic programs with specific campuses of the University of California and with some private universities, for example:

- Transfer Admissions Agreements (TAA) and Transfer Admissions Guarantees (TAG) have been developed with California State University East Bay; California State University Monterey Bay; San José State University; University of California, Davis; University of California, Irvine; University of California, Merced; University of California, Riverside; University of California, Santa Barbara; University of California, Santa Cruz; and Santa Clara University. Please make an appointment with a counselor to complete a TAA or a TAG.
- Dual Enrollment Programs exist with the University of California, Berkeley and California State University East Bay.

Transfer Planning

Students intending to transfer to either a California State University (CSU) or University of California (UC) campus will need to apply for an official certification of completion of General Education requirements. This request should be made at the Office of Admissions and Records during the term just prior to the intended term of transfer. In addition, students need to request that an official, final transcript is sent to the transfer institution. Students should see a counselor to determine which General Education is appropriate for their educational goals.

Students are encouraged to meet with a counselor to develop specific educational plans for transfer. Some sequenced courses (e.g. ENGL-101A-B and MATH-101A-B) may not be accepted in transfer if they have been taken out of sequence.

Career Services

The Student Success Center provides resources to students wishing to explore careers and/or employment. Career testing is available for those students who are undecided about their educational and occupational goals via the Personal Development classes offered every semester, which include Career Testing Workshop (PD-149), Career Planning (PD-150), and Strategies for College Success (PD-111 or PD-113). For students wishing to work in the community, the Student Success Center works with Bay Area employers to receive the best available jobs for students. The online partner, MonsterIrak.com, is a Web-based job listing and career development resource for enrolled students. For full-time, regular employment, the Student Success Center works in partnership with the One-Stop Career Center. Students are encouraged to visit the Student Success Center in Building 1, fourth floor, Room 1403 to see the services offered.

TUTORING SERVICES

The College tutoring system is institution-wide, featuring a central tutorial services operation and six other discipline or location-specific tutoring sites. All sites give academic support to students needing extra help in understanding the concepts presented in the instructional process. Tutoring is provided at no charge and helps students meet their academic goals. The Counseling Department, Extended Opportunity Programs and Services (EOPS), and Disabled Student Services (DSPS) also provide tutoring and learning readiness programs and coordinate services with the tutoring centers.

The Tutoring Center, located within the Learning Resource Center in the Student Technology Center (Building 1, third floor, Room 1305), offers peer tutoring in most subject areas. Other tutoring locations include:

- Accounting Lab (Building 8, Room 8110).
- Biology Learning Center (Building 8, Room 8318). Drop-in biology and chemistry tutoring services are provided at the Biology Learning Center.
- English Learning Center (Hyman Hall, Room HH-217). The English Learning Center provides self-paced reading courses, support for the lab component of writing courses, and support for all students needing assistance/tutoring in writing, reading, and ESL assignments. Facilities are available for students to do Internet research and type their writing assignments.
- Health Sciences (Building 8, Room 8104) by appointment.
- Math Learning Center (Hyman Hall, second floor). Tutoring services are provided in Math, Physics, and Engineering in the Math Learning Center.
- Respiratory Therapy (Building 8, Room 8105) by appointment.

VETERANS’ EDUCATIONAL BENEFITS

Building 1, first floor, Window 7
(510)-659-6199
http://www.ohlone.edu/org/veterans/

Students who are veterans or dependents of veterans may be entitled to receive monthly compensation toward their college expenses under the Post-Vietnam Era Veterans’ Educational Assistance Program (VEAP), the Montgomery GI Bill-Active Duty Educational Assistance Program, the Montgomery GI Bill-Selected Reserve Educational Assistance Program, or Dependents Educational Assistance Program. To apply for benefits, all eligible veterans and dependents must fill out an application available online at http://www.gibill.va.gov/ or at the Office of Veterans Affairs. Students applying for VA benefits must have the Veteran’s Counselor review all previous college transcripts to evaluate allowable credits and to prepare a Student Educational Plan (SEP).

Students receiving VA benefits who change their academic program, add or drop classes, or withdraw from the College must notify both the Office of Admissions and Records and the Office of Veterans Affairs. Students should visit the Counseling Office to make an appointment with the Veteran’s Counselor. For assistance or information, please contact the Veteran’s Office at (510) 659-6199 or veteransaffairs@ohlone.edu.

2007-2008 OHLONE COLLEGE CATALOG
Fees and Refunds

Cashier/Student Receivable Department
Building 1, second floor
(510) 659-6073
http://www.ohlone.edu/org/studentrec/

FEES

Enrollment Fee
Enrollment fees are required of all students, except K-12 students and students who qualify for a fee waiver. Enrollment fees and refunds vary based upon residency, non-resident, and/or non-citizen status. Please see the 2007-2008 fees listed on page 30.

Online Registration Access Fee
The registration fee is required of all students who use WebAdvisor to register, add, or drop courses. The fee is non-refundable except for students who do not access online registration services and submit a refund request to the Cashier’s Office.

Student Activity Fee/Student ID Card
Every student is encouraged to support the optional, non-refundable Activity Fee supporting co-curricular activities and student events ($5 per semester for Fall and Spring; $2.50 for Summer Session). Included in the Student Activity Fee is the ability to receive a Student ID card. The Student ID card entitles students to a number of benefits including free or discounted admission to College and ASOC sponsored events; easy library book checkout; reduced rates for events held in the Gary Soren Smith Center for the Fine and Performing Arts; identification for the Reading and Writing Labs; and special discounts in the Ohlone Cafeteria and community. In addition to these discounts students are encouraged to check with symphonies, amusement parks, and theaters about established student discount programs. For a complete list of local merchants participating in the discount program and other ID card benefits, please visit ASOC in Building 1, Room 1130 or call (510) 659-6063.
Health Services Fee

Ohlone College provides health services for students through the Student Health Center. In accordance with State Community College regulations, all enrolled students will be charged a Health Services Fee of $16 for both Fall and Spring semesters and $13 for Summer Session.

The only exemptions for this fee are listed below:

- The Health Services Fee is optional for students taking classes held only on Sunday or only at off-campus locations. Only such students who elect to pay the Health Services Fee will be eligible for health services.
- Students who rely only on prayer for healing in accordance with teachings of a bona fide religious sect, denomination, or organization may seek exemption from the fee and services. To apply for a waiver, students must provide a statement of such reliance from an official of the sect, denomination, or organization to the Student Health Center at least one week prior to their registration date. Waivers will not be processed after a student has registered and exemptions will not be accepted after the second week of the term.

Instructional Materials Fees

In accordance with revised California Administrative Code Title 5, Part VI, sections 59400 through 59408, the policy for requiring students to provide instructional and other materials and establishing the provisions for assessing the students a fee for a credit or non-credit course shall conform to the following guidelines:

A. The materials shall be tangible personal property that are owned or primarily controlled by an individual student.
B. The material is of a continuing value to the student outside of the classroom setting and is not wholly consumed, used up, or rendered valueless as it is applied in achieving the required course objectives that are to be accomplished under the supervision of an instructor during class hours.
C. The material shall not be solely or exclusively available from the District except if it is provided to the student at the District’s actual cost, and:
   1. The material is otherwise generally available, but is provided by the District for health and safety reasons, or
   2. The material is provided in lieu of other generally available, but more expensive material that would otherwise be required.
D. Any materials not meeting these guidelines will be provided by the District to students at no cost to the student.

Unpaid Financial Obligations

The Ohlone Community College District may through its officers withhold transcripts, diplomas, and registration privileges, or any combination thereof, from any student who has been provided with written notice (via letter or e-mail) that he or she has failed to pay a proper financial obligation due to the District. Any item or items withheld shall be released when the student satisfactorily meets the financial obligation. This policy is authorized by the California Education Code Section 72237.

Students who do not pay fees or fines or who pay by check or credit card with insufficient funds are subject to an additional 33.3% collection fee based on the financial obligation due. Unpaid financial obligations including the collection service fee may be referred to the State of California for deduction of debt from individual tax refunds. This process includes but is not limited to unpaid library fines; enrollment and class related fees; unpaid short-term loans; and unpaid restitution costs.

REFUNDS

Refund dates for Fall, Spring, and Summer full-term courses are located in the corresponding Class Schedule. Summer courses and non-semester length (e.g. Fast Track) courses are eligible for a 100% refund if dropped before the first 8% of the class time. If any class, in any semester, meets for 10 or fewer meetings, students must drop the class before the first meeting to be eligible to request a refund for that class. Students are responsible for dropping a class by the refund deadline in order to be eligible for a refund. Students will be required to pay fees if they drop classes after the refund deadline.

The Cashier accepts refund requests for any term after the add period for that term has ended. The refund date is based on the date the Cashier receives the student’s complete and accurate Refund Request Form or receives a complete and accurate e-mail request. Up-to-date refund process dates and information and the current Refund Time Table is available online at the Cashier Web page at http://www.ohlone.edu/org/studentrec.
**2007-2008 FEES**

Fees may be charged for copies of student records; processing of enrollment fee and tuition refunds; and vocational and counseling related tests.

Fees will be charged for Community Education events and facilities use in accordance with California Education Code provisions.

**All fees are subject to change.**

<table>
<thead>
<tr>
<th>FEE</th>
<th>AMOUNT</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment Fee</td>
<td>$20 per unit</td>
<td>Required of all students except K-12 students and students who qualify for a fee waiver.</td>
</tr>
<tr>
<td>Online Registration Access Fee</td>
<td>$5 per term</td>
<td>Required for all students who use WebAdvisor to register, add, or drop courses. Non-refundable except for students who do not access online registration services and submit a refund request to the Cashier's Office.</td>
</tr>
<tr>
<td>Parking Permit</td>
<td>$26 per semester per vehicle; $15 per semester per motorcycle; or $2 daily rate</td>
<td>Required of all students who park on the Fremont campus. Parking permits may be purchased at the Bookstore on the Fremont campus. Fees are currently under review and are subject to change.</td>
</tr>
<tr>
<td>Non-resident tuition</td>
<td>$173 per unit, in addition to Enrollment Fee</td>
<td>Required of all out-of-state students</td>
</tr>
<tr>
<td>Non-resident, non-citizen tuition</td>
<td>$183 per unit, in addition to Enrollment Fee (includes $10 per unit Capital Outlay Fee)</td>
<td>Required of all non-resident, non-citizen students including those who hold C, D, F, H-2, H-3, J, M, P, Q, TD, and TN visas. Holders of B visitor visas may not enroll.</td>
</tr>
<tr>
<td>Student Activity Fee</td>
<td>$5 for both Fall and Spring semesters and $2.50 for Summer Session</td>
<td>This fee is charged to all students unless they decline in writing before the deadline published in each term's Class Schedule.</td>
</tr>
<tr>
<td>Health Services Fee</td>
<td>$16 for both Fall and Spring Semesters and $13 for Summer Session</td>
<td>Required of all enrolled students except those students with exceptions as listed in the Health Services Fee section on page 29.</td>
</tr>
<tr>
<td>Printing Fees</td>
<td>$5 initial purchase fee for reusable card and $3 printing credit. Printing cost is 15¢ for black and white printing and 60¢ for color printing.</td>
<td>Required for printed copies in all computer labs and classrooms.</td>
</tr>
<tr>
<td>Copying Fees</td>
<td>15¢ per page (black and white) 60¢ per page (color)</td>
<td>Payment for copies is required in Hyman Hall and the Library.</td>
</tr>
<tr>
<td>College Catalog</td>
<td>$3</td>
<td>Add an additional $3.75 for postage and handling if catalog is mailed.</td>
</tr>
<tr>
<td>International Student Application Processing Fee</td>
<td>$100</td>
<td>Applied to tuition fees upon registration.</td>
</tr>
<tr>
<td>Transcripts – Normal Processing</td>
<td>$4 per copy</td>
<td>First two copies are free.</td>
</tr>
<tr>
<td>Transcripts – Express Service</td>
<td>$10 per copy</td>
<td>Not available during Extended Registration</td>
</tr>
<tr>
<td>Transcripts – Unofficial</td>
<td>Free</td>
<td>Available only through student's WebAdvisor account</td>
</tr>
<tr>
<td>Verification of Enrollment</td>
<td>$4</td>
<td>First two copies are free.</td>
</tr>
<tr>
<td>Duplicate Registration Receipt/Work-in-Progress Listing</td>
<td>Free</td>
<td>Available through student's WebAdvisor account</td>
</tr>
<tr>
<td>Chemistry Department Breakage Fee</td>
<td>Cost of replacement in excess of $5</td>
<td></td>
</tr>
</tbody>
</table>

**ALL FEES ARE SUBJECT TO CHANGE BASED ON STATE BUDGET ADJUSTMENTS.**

Additional fees may be added at a later date, subject to approval by the Ohlone Community College District Board of Trustees.

Fees are accurate at the time of catalog publication; however, fees may be increased and could result in additional charges after registration has been completed.
ACADEMIC STANDING

A student’s status may fall within several categories ranging from the acknowledgment of highest honors to dismissal, the latter resulting in separation from Ohlone College. The categories are as follows: Honors (President’s List, With Honors, and With Highest Honors); Clear Standing; Probation (Academic and Progress); and Dismissal (Academic and Progress).

Honors
A student who achieves outstanding scholarship in any semester (3.20 or above in six or more units and whose cumulative GPA is 2.00 or above) will receive the distinction of being placed on the President’s List.

A student with a cumulative grade point average in all college work applied toward the degree between 3.20 and 3.49 inclusive will graduate “With Honors.” A student with a cumulative GPA between 3.50 and 4.00 inclusive will graduate “With Highest Honors.” These notations will be included on the diploma and the transcript.

Clear Standing
A student whose last completed semester GPA and cumulative GPA are 2.00 or above and whose accumulated units of W, NC, and/or I do not reach or exceed 50% shall be in Clear Standing.

Academic Probation
A student who has attempted 12 or more semester units and who then earns a cumulative GPA of less than 2.00 during the Fall or Spring semester shall be placed on academic probation the following semester. A student shall be removed from probationary status when the cumulative GPA reaches 2.00 or above. Any student whose cumulative GPA remains below 2.00 will continue to be on Academic Probation as long as the GPA is 1.75 or above.

Progress Probation
A student who has attempted 12 or more units shall be placed on Progress Probation when the percentage of all units attempted for which entries of W (Withdrawal), I (Incomplete), and/or NC (No Credit) are recorded reaches or exceeds 50 percent. A student shall be removed from probationary status when the percentage of all of the units in which the student has enrolled for which entries of W, I, and/or NC are recorded is below 50 percent.

Subject to Dismissal: Academic
A student will be subject to dismissal when:

- the student has attempted 12 or more units and earns a cumulative grade point average at Ohlone College of less than 1.75 for two consecutive semesters.
- the student is in the first semester of attendance after having been reinstated subsequent to dismissal from Ohlone or any other college.

Subject to Dismissal: Progress
A student who has attempted 12 or more units shall be placed on Progress Subject to Dismissal when the percentage of all units attempted for which entries of W, I, and/or NC are recorded reach or exceed 50 percent for two consecutive semesters.
Academic Dismissal
A student who has attempted 12 or more units and has earned a cumulative GPA of less than 1.75 for three consecutive semesters shall be dismissed.

Progress Dismissal
A student who has attempted 12 or more semester units shall be dismissed when the percentage of all units attempted and for which entries of W, I, and/or NC are recorded reach or exceed 50 percent for three consecutive semesters. Any student who has been dismissed after having been placed on Probation may petition for reinstatement under certain conditions; students should refer to the Reinstatement section in this catalog for details.

Notification of Academic/Progress Status
Students who are on Probation (Academic or Progress), Subject to Dismissal (Academic or Progress), or dismissed for academic/progress reasons shall have such statuses printed on their academic records (transcripts).

Counseling/Academic Advising for Probationary Students
Each student who is on probation and/or subject to dismissal should meet with a counselor to determine the cause of the below average performance and to take steps to ensure the below-average performance does not continue. Steps to prevent recurrence of below average work might include group counseling, a workshop, a Personal Development (PD) course, further aptitude and/or interest assessment, a change of objective, or greater diligence on the part of the student.

Reinstatement
Any student who has been dismissed after having been placed on Probation may petition for reinstatement under the following conditions. A student who is dismissed because of a cumulative GPA of less than 1.75 for three consecutive semesters may petition for reinstatement if the student’s semester grade point average during the last three semesters is 2.00 or above. A returning or transfer student on Academic Dismissal who has maintained a 2.00 GPA for three consecutive semesters may petition for reinstatement even if the student’s cumulative grade point average is still below 2.00.

Students also may petition for reinstatement in cases of extreme extenuating circumstances not reflected in the above conditions. Petitions are available from and submitted to the Counseling Department. All reinstatement petitions must be received within one week of the date on which the student received the dismissal notice by e-mail or letter. Approval of this petition may require one or more of the following stipulations:

- Attending a Student Success Workshop
- Completing a Student Education Plan approved by a counselor
- Limiting the number of units in which the student may enroll

Students re-admitted by petition will continue to be on dismissal status for their re-admitted semester of enrollment. Students must continue to follow the procedures for re-admission each semester that they are on dismissal status.

Disciplinary Dismissal from Class or the College
Ohlone College, guided by the California Education Code, regards the following as causes for disciplinary measures which may lead to dismissal from class or from the College: excessive absences; serious lack of academic effort; unsatisfactory conduct; violation of any state law or municipal ordinance on the College campus; and action detrimental to the best interests of the College. Readmission of a student dismissed for disciplinary reasons is dependent upon favorable administrative action. The Standards of Student Conduct and Discipline and Due Process Procedures are available from the rack located in Building 1 outside the Office of the Vice President, Student Development.

Academic Renewal
Ohlone College is committed to the provision of educational opportunities for all people of the community of post high school age relative to their present needs and regardless of previous performance. An enrolled student may petition to have previous substandard (D and F) Ohlone college work (grades and credits) excluded from GPA and units completed calculations if that work is not reflective of the student’s present ability and/or level of performance. Students considering Academic Renewal should also note the procedures for repeating a course described on page 34. The permanent academic record shall be annotated in such a way that all work remains legible. Within this commitment and in accordance with its encouragement and support of lifelong learning, the College has developed the following regulations and procedures for academic renewal.

1. The maximum number of terms of work excluded shall be two semesters or three quarters.

2. Such exclusion shall be for substandard coursework (classes in which grades of D or F were assigned); a student may petition to have some or all of the substandard coursework in a term excluded.

3. A student must complete 15 units of Ohlone College coursework after the most recent term for which academic renewal is sought and prior to petitioning for academic renewal. All Ohlone College coursework taken after the most recent term for which academic renewal is sought must be completed with a grade of C or higher.

4. A student who receives a substandard grade in a class or classes after the term(s) for which renewal is sought may repeat the class(es) for a higher grade in order to meet this requirement. Students are responsible for proving that past substandard grades do not reflect their present ability and/or level of performance.

5. A minimum of three years must have elapsed since completion of the most recent term for which academic renewal is sought and the petition for academic renewal. The 15 units mentioned above may be completed within the three years.

6. The opportunity for academic renewal through the exclusion of the previous college work refers to previous work at Ohlone College and/or other colleges. Ohlone College recognizes that this policy is an internal policy and in no way binds any institution that may receive a student who has had academic work excluded by this policy.

Applications for Academic Renewal may be obtained from the Office of Admissions and Records and are available online at http://www.ohlone.edu/-org/admissions/forms/student_petition.pdf. Completed petitions need to be submitted to the Office of Admissions and Records. Transcripts of the previous work for which exclusion is requested must be on file in the Office of Admissions and Records prior to petitioning.
STUDENT CLASSIFICATIONS

Students are classified in terms of the number of units they have completed and the number of units in which they are currently enrolled.

Freshman: A student who has earned from 0 to 29.5 semester units of college work credit
Sophomore: A student who has earned from 30 to 60 semester units of college work credit
Full time: A student enrolled in 12 or more semester units
Part time: A student enrolled in 11.5 or fewer units
Half-time: A student enrolled in 6 units or less

STUDENT LOAD/OVERLOAD GUIDELINES

A student’s load is defined as the total number of units carried in any one semester. Fifteen units constitute the normal semester load. Permission to carry a load of more than 17.5 units during Fall or Spring semesters may be granted by a counselor if a student has the recommended minimum GPA.

<table>
<thead>
<tr>
<th>Part-Time</th>
<th>Full-Time</th>
<th>Overload</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall/Spring</td>
<td>6-11.5</td>
<td>12-17.5</td>
</tr>
<tr>
<td>Summer</td>
<td>3-5.5</td>
<td>6-8.5</td>
</tr>
</tbody>
</table>

GRADERS

In any course offered at Ohlone College, the instructor of the course shall determine the grade earned by each student in accordance with grading symbols authorized for use by the Education Code of California and adopted by the Board of Trustees of Ohlone College. The awarding of a grade to a student is the responsibility of the instructor of the course in which the student is registered. The earned grade as assigned by the instructor shall be final and shall become a part of the student’s permanent record. The determination of the student’s grade by the instructor shall be final in the absence of clerical or evaluative error. Grades are available to students via WebAdvisor (https://webadvisor.ohlone.edu) within four weeks after the semester ends.

Grading System
(per California Code of Regulations, Title 5, 55758)

Ohlone College uses the following letter grade system for evaluating the quality of students’ work:

### Evaluative Grades

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Passing, less than satisfactory</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>0</td>
</tr>
<tr>
<td>CR</td>
<td>Credit (at least satisfactory)</td>
<td>0</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit (less than satisfactory or failing)</td>
<td>0</td>
</tr>
</tbody>
</table>

### Non-Evaluative Grades

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>0</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
<td>0</td>
</tr>
<tr>
<td>MW</td>
<td>Military Withdrawal</td>
<td>0</td>
</tr>
<tr>
<td>RD</td>
<td>Report Delayed</td>
<td>0</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td>0</td>
</tr>
</tbody>
</table>

Grade Point Average (GPA)

The grade point average is computed using the following formula: divide the number of grade points earned in classes where grades were awarded by the number of units attempted in those classes. Units earned in Credit/No Credit classes or any units earned in non-evaluative graded classes should not be included.

Credit/No Credit Option

Many courses offer a student the option of a letter grade or Credit/No Credit. This option allows students the opportunity to explore courses outside the current major interest without undue concern for the grade point average. A maximum of 15 units of Credit/No Credit may be applied toward the associate degree. Courses taken on a Credit/No Credit basis cannot be used to satisfy the major field requirements for an associate degree or Certificate of Achievement and may not be accepted for transfer by transfer institutions. The only exception is within the five general degrees (Natural Science, Liberal Arts, Social Science, Fine Arts, and Business) toward which only six units of Credit/No Credit courses may be used to satisfy the major field requirements.

Under this policy, the College offers:

1. Some courses solely for Credit/No Credit. These courses are identified by the code CR following course descriptions in this Catalog. The credit grade is awarded to indicate the completion of such a course with a C or better grade. A credit grade will apply toward the 60 units required for graduation, but will not affect the student’s grade point average. Courses in which a No Credit grade is earned will receive no units, will not apply toward graduation, and will not affect the student’s grade point average.

2. Some courses solely for a standard letter grade. These are identified by the code GC following the course descriptions in this Catalog.

3. Some courses in which the student may choose to complete the course for either Credit/No Credit or for a standard letter grade (GC). These courses are identified by the code GC following the course descriptions in this Catalog.

In those courses with a Credit/No Credit option, a student is required to choose a grading method by the deadline posted on the Academic Calendar in the Class Schedule. Once the deadline has passed, students may not change their choice of grading methods. The same provisions described under (1) above apply to GC courses. If the student does not submit the Credit/No Credit form to the Office of Admissions and Records by the deadline posted on the Academic Calendar in the Class Schedule, a standard letter grade will be awarded.

A student is limited to one Credit/No Credit course per semester in addition to remedial, guidance, and physical education courses and/or to courses offered only for Credit/No Credit. A maximum of 15 units of Credit/No Credit courses may be attempted. The decision to take a class Credit/No Credit is irreversible after the deadlines listed in the Class Schedule.

Incomplete Grades

An Incomplete grade may be assigned only when a student has failed to complete the final examination, a final class project, or a term paper because of illness or an unforeseen personal emergency. It is the student’s responsibility to contact the instructor in such cases.

When such conditions exist, the instructor and student must complete an “Incomplete Grade Contract” which outlines the work to be completed within one academic year and then the completed contract must be submitted to the Office of Admissions and Records. When the work has been completed as outlined on the contract, the instructor will submit a Change of Grade form to the Office of Admissions and Records. Students who do not complete the contract will be assigned a grade of F after the end of the term in which the Incomplete was given.

Students may not re-enroll in a course in which they have an Incomplete grade. Students must present evidence of extenuating circumstances to support a request for an extension of the Incomplete time limit. Petitions must be received before or by the end of the term in which the one year time limit expires.
Auditing

Students wishing to audit a graded credit course may do so under the following conditions:

- Course attendance as an auditor shall be permitted only after students desiring to enroll in the course for credit toward a certificate or degree have had an opportunity to enroll.
- Course attendance as an auditor shall be permitted only after approval has been obtained from the instructor of the course.
- No student auditing a course shall be permitted to change his/her enrollment in that course to receive credit for the course.
- The student has paid the appropriate enrollment and/or audit fees at the Cashier's Office.

The audit fee shall be $15 per unit per term and is not refundable. Students enrolled in credit classes for 10 or more units per semester shall not be charged a fee to audit 3 or fewer units per term.

REPETITION OF COURSES

For Credit

Generally, courses are not repeatable for credit. Some specified courses may be repeated for credit. These courses are designated by the word Repeatable in the Catalog course listing. The number after the word Repeatable indicates the number of times the course may be repeated for credit. All repeat policies are enforced through WebAdvisor and students will be blocked from registering for courses when the maximum number of repetitions has already been attained.

Physical Education activity courses are linked by activity, and each activity-regardless of skill level-may be repeated only three times. For example, students may take tennis four times (the original course and three repeats); they cannot take beginning, intermediate, and advanced tennis four times each.

To Improve a Grade

Any course may be repeated one time to raise a substandard grade (D, F, or NC). If a student earns a substandard grade twice at Ohlone and wants to repeat the course at Ohlone, the student will need to get permission from the Division Dean in order to repeat the class at Ohlone again. The student will need to submit a Student Petition for Special Action with the dean's signature to the Office of Admissions and Records. Admissions and Records will then take care of registering the student into the class if the dean has approved the petition.

When a course is repeated to raise a substandard grade only the most recent grade – whether or not it is higher than the previous grade – will be computed in the grade point average. However, all grades, including substandard grades, whether counted in the grade point average or not, must by California Education Code remain legible on the student’s permanent record.

A course in which a substandard grade was earned at another accredited college or university may be repeated as specified above. Grades earned as a result of course repetition at other accredited colleges or universities are acceptable at Ohlone College.

Under special circumstances repetition of courses in which other than a substandard grade has been earned may be permitted with the prior approval of the President of the College or designee.

UNIT OF CREDIT DEFINITIONS

Credit is assigned to courses based on the “Carnegie unit,” which expects a student to complete three hours of work a week during an 18 week semester for one unit of credit. Usually this equates to one hour of lecture or discussion led by the instructor and appropriate assignments that would compel the student to complete two hours of outside preparation. Courses that require a laboratory component will require three or more hours of work in the laboratory each week for one unit of credit. Ohlone College is on a 16 week semester system. Therefore, a one-unit course would require 3.4 hours of work each week for sixteen weeks.

Semester units carry a different value than quarter units. For the student who comes to Ohlone with units earned at a college or university on a quarter system, or for the student who intends to go to a college or university on a quarter system, the number of units earned will have to be converted. To convert semester units to quarter units, multiply the number of semester units by 1.5 to obtain the comparable number of quarter units; to convert from quarter to semester units, multiply the number of quarter units by 0.66 to get comparable semester units.

CREDIT BY EXAMINATION

A student who has achieved knowledge elsewhere or who has an understanding equivalent to that required by one or more college courses may receive academic credit by successfully completing a comprehensive course examination. To apply for Credit by Examination a student must be registered at Ohlone and be in good academic standing. Not all Ohlone College courses are offered for Credit by Examination. Final determination of which courses are available for credit by examination will be made by the faculty member(s) who teaches the course and the appropriate Division Dean. Credit may only be granted for a course listed in the Ohlone College Catalog.

Petitions for Credit by Examination are available in the Office of Admissions and Records and may be submitted during the first three weeks of any semester. Credit by Examination shall not be used to establish the 12 unit residency requirement for graduation, nor be considered Ohlone College credit for the purpose of meeting the 6 unit requirement for a Certificate of Achievement and the 50% requirement for a Certificate of Completion.

Units awarded through Credit by Examination are so annotated on the student's transcript and assigned a grade of CR. Credit is not given for any class which the student has previously attempted and failed or for which he/she has previously sought Credit by Examination.

Students seeking advanced standing in Registered Nursing or Respiratory Therapy based on certificates or licenses already held in those fields may challenge a maximum of 19 units (first year major courses in each program). Applications to qualify for Credit by Examination in Registered Nursing or Respiratory Therapy are made directly to the Health Sciences Division Office. R.N.'s seeking credit by exam for transfer to a four year college or university may challenge first and second year major courses in nursing after completing six or more units at Ohlone College. Please contact the Health Sciences Division Office for further information.

Credit for Military and Non-collegiate Courses/Training

Students seeking credit for military and/or non-collegiate courses should meet with a counselor to determine procedure for verification of credit and applicability of such credit to their educational goals. Veterans who have completed a minimum of one full year active duty and have completed basic training are eligible – upon submission of a DD 214 form to the Office of Admissions and Records – for two units of credit for health science, two units for military science, and two units for physical education. Veterans with service school training also may be eligible for credit after evaluation by the Office of Admissions and Records. Other non-collegiate courses as recommended by the American Council on Education may be accepted for credit. Credit limitations for non-collegiate courses are as follows:
Military Basic Training  
6 semester units

Military Service School Equivalencies as recommended by the American Council on Education’s Committee for Evaluation of Military Services Experiences.

Non-collegiate courses as recommended by the American Council on Education as printed in the “National Guide to Credit Recommendations for Non-collegiate Courses.”

Any combination of the above cannot exceed a total of 22 semester units.

Advanced Placement (AP) Credit

Ohlone College recognizes the Advanced Placement program of the College Entrance Examination Board. Course credit is granted for Advanced Placement examinations with a score of 3 or higher, if the appropriate Division Office has determined that the material covered in the Advanced Placement course is comparable to a specific Ohlone course offering within that division. Advanced Placement credit may be granted for fulfillment of Ohlone College’s degree requirements, General Education Breadth certification for the CSU, and IGETC. However, when a student transfers to another 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 appear on an Ohlone College transcript.

Students must submit an official copy of their Advanced Placement scores to the Office of Admissions and Records in order to receive Advanced Placement credit. Units for which credit is given for Advanced Placement examinations shall not be counted in determining the residency requirement for certificates and/or degrees.

BASIC SKILLS CLASSES

Basic Skills classes include classes that are non-transferable and are not associate degree applicable. Starting in Fall 1989 the units attempted, units completed, and grade points for these classes will not be included in a student’s cumulative totals nor will they be used in calculation of the grade point average. All units, grades, and grade points will still appear on the student’s permanent record; however, these courses will be identified by an ND printed under the heading CSU/GE and a # sign printed after the grade.

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**ADVANCED PLACEMENT (AP) CREDIT CHART**

<table>
<thead>
<tr>
<th>AP Exam</th>
<th>Score</th>
<th>Credit granted</th>
<th>Minimum units awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>4, 5</td>
<td>Plan A GE and major (ART-103A and ART-103B); Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td></td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (BIOL-130); Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (CHEM-106A*); Plan B or C GE</td>
<td>6 units</td>
</tr>
<tr>
<td>Economics: Macroeconomics</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Economics: Microeconomics</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>English: English Language and Composition</td>
<td>4, 5</td>
<td>Plan A GE and major (ENGL-101A); Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td></td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td></td>
</tr>
<tr>
<td>French Language</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (FREN-101A); Plan B or C GE</td>
<td>6 units</td>
</tr>
<tr>
<td>Government and Politics: Comparative</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Government and Politics: United States</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (PS-102); Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>History: European</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>History: United States</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Mathematics: Calculus AB</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (MATH-101A); Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Mathematics: Calculus BC</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (MATH-101A and MATH-101B); Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Music Theory</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Physics B</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (PHYS-108); Plan B or C GE</td>
<td>6 units</td>
</tr>
<tr>
<td>Physics C (Mechanics)</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Physics C (Electricity and Magnetism)</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Psychology</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (PSY-101); Plan B or C GE</td>
<td>3 units</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (SPAN-101A); Plan B or C GE</td>
<td>6 units</td>
</tr>
<tr>
<td>Statistics</td>
<td>3, 4, 5</td>
<td>Plan A GE and major (MATH-159); Plan B or C GE</td>
<td>3 units</td>
</tr>
</tbody>
</table>

*Requires additional submission of high school lab notebook to receive credit.
**FINAL EXAMINATIONS**

Final examinations are given at the end of each semester. Students are required to take the final examinations for the courses in which they are enrolled. No examinations are administered prior to the regular schedule except under extraordinary circumstances. Student requests for exception to the final examination schedule shall be submitted to the Vice President, Academic Affairs/Deputy Superintendent.

**CATALOG RIGHTS POLICY**

Pursuant to California Education Code §40401, a student pursuing an associate degree, a Certificate of Achievement, or a Certificate of Completion may follow the general education and major requirements which are published in the catalog in effect at the time in which the student first began attendance at Ohlone College or regulations current at the time the student files for and receives a degree and/or certificate. Exceptions to this policy are by the petition process. Students pursuing academic programs that require a separate application process are assigned to the catalog year that the student was accepted into the program.

A course in which a student receives a W is not considered to have been completed. The preceding catalog rights are subject to the following limitation: students who do not complete an Ohlone College course(s) during a period of six consecutive terms, including summer sessions, forfeit the right to follow the degree or certificate requirements set forth in any catalog prior to their resumption of studies. For the purpose of this section, the effective period of a catalog extends from the beginning of a Fall semester to the close of the subsequent Summer session. Please note that Ohlone may require substitutions for required courses that have been discontinued.

**FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)**

Students at Ohlone College are guaranteed certain rights regarding their school records and information that they provide to the College, as granted by the Family Educational Rights and Privacy Act of 1974 (FERPA), Section 438, Public Law 93 380. These rights include:

1. The right to inspect and review official college records directly related to the student;
2. The right to challenge the correctness of these records;
3. The right to have some control over the disclosure of personally identifiable information from the education records.

These federal rights are designed to protect the privacy of all students. It is the policy of the College that – except as permitted by state or federal law – no record, file, document, or other materials, or personally identifiable information contained therein, shall be released to any individual, agency, or organization without the express written consent of the student. The Registrar has been designated as Records Officer, as required by the Family Educational Rights and Privacy Act.

**K-12 Parent/Guardian Information**

According to the Family Educational Rights and Privacy Act (FERPA) of 1974, when a student turns 18 years old or enters a postsecondary institution at any age, the rights under FERPA transfer from the parents to the student. Students who are enrolled at Ohlone College are covered by the Family Educational Rights and Privacy Act of 1974. According to this legislation, College personnel cannot release a student’s records or speak with parents and/or guardians about any student’s academic records without the student completing the “Release of Information” form. The exception to this policy is if the student is claimed as a dependent by either parent for tax purposes. Ohlone College reserves the right to require documents verifying a student’s status as a dependent. The “Release of Information” form is available online at http://www.ohlone.edu/org/admissions/-forms/waiverreleaseofinfo.pdf.

**Directory Information**

Directory information as defined by law includes one or more of the following: student’s name, address, telephone number, date and place of birth, major field of study, class schedule, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous public or private school attended by the student. Under federal law, the College may release directory information to the public. However, the College will still make available to the public names of students who are graduating, the names of students who are placed on the President’s List or who receive honors, participants in athletic events, and students who receive scholarships and other awards, unless the student requests in writing to the Registrar that his or her name be withheld from any such list.

**STUDENT RESPONSIBILITIES**

**Academic Progress: Financial Aid Recipients**

There are specific academic progress regulations for students who receive financial aid. These are listed in the Financial Aid Handbook available in the Financial Aid Office.

**Academic Progress: Veterans’ Benefits Recipients**

There are specific academic progress regulations for students who receive veterans’ benefits. Veterans should consult the Veterans’ Office regarding these regulations.

**Academic Progress: International Students**

There are specific academic progress regulations for F-1 visa students in the International Student Program. Students should consult with the Director, International Programs and Services or the International Student Advisor regarding those regulations.

**Attendance**

Students should attend the first meeting of their classes to assure maintenance of their enrollment. Students who neglect to attend or do not attend their classes may be dropped from class by the instructor. However, it is the student’s responsibility to drop classes they do not plan on attending. Students who do not drop classes they do not plan on attending will be required to pay the fees for those classes and may receive a failing grade.

Regular attendance and participation is required of all students enrolled in courses at Ohlone College. This includes regular attendance; completion of examinations and assignments; and participation in class activities and discussions. Instructors shall provide students with written statements describing course requirements, grading standards, and course prerequisites.

Regular attendance is an obligation assumed by every student at the time of registration. Students may be dropped from class by the instructor (up to the withdrawal deadline) for excessive absences, frequently defined as cumulative absences that equal twice the weekly hours of a given class. Students have the responsibility for verifying their enrollment status. If students choose to withdraw from classes, it is their responsibility to do so online via WebAdvisor (https://webadvisor.ohlone.edu) or by submitting an Add/Drop card by the deadline to the Office of Admissions and Records.

**Withdrawal from Class**

See: Dropping Classes.
Successful completion of approved programs at Ohlone College may lead to:

- An Associate of Arts or Associate of Science degree;
- A Certificate of Achievement or a Certificate of Completion in a specified occupational field;
- Completion of lower division (freshman and sophomore) requirements for transfer to upper division (junior) standing at a four-year college or university.

Although these objectives are listed separately, it is possible to achieve all concurrently during the freshman and sophomore years of college. For example, it is possible to use the coursework completed for a certificate program as a major for an associate degree. Similarly, students completing lower division requirements for transfer to a four-year college or university will find it possible to meet the requirements for an associate degree from Ohlone College.

It is important for students to declare an academic program as early in their academic career as possible, but no later than by the time they complete 15 degree-applicable units. Students must have a declared program to be eligible to receive financial aid, and those who have declared programs are given earlier registration appointments. Students may declare multiple programs and may change their declared program at any time; however, no student should remain undeclared after completing 15 degree-applicable units. Students who did not declare a program at the time of application can declare or change academic programs online via WebAdvisor (https://webadvisor.ohlone.edu) or by submitting a Change of Major form to the Office of Admissions and Records. A Change of Major form is available online at http://www.ohlone.edu/org/admissions/forms/declaremajor.pdf

Transfer Credit from Another Institution

Ohlone College accepts credit for lower division coursework previously completed at a college accredited by one of the six regional accrediting associations. Students must have official transcripts sent to the Ohlone College Office of Admissions and Records. To be official, the transcripts must be sent from college to college or hand-delivered in a sealed, unopened college envelope. An Ohlone counselor will review the coursework to determine how it may be applied to the Student Education Plan.

Students may meet with an Ohlone counselor to petition for individual courses completed at non-regionally accredited colleges to be accepted for major requirements. The credit is non-transferable toward a bachelor’s degree. Students who want to use coursework completed at a foreign institution must have their transcripts evaluated by an approved foreign evaluation service. Students must meet with a counselor to petition to use any of this coursework toward the associate degree. Coursework from a foreign institution cannot be used to certify IGETC or CSU GE.
STEMS IN CHOOSING YOUR OHLONE COLLEGE ACADEMIC PROGRAM

It is always best to consult an Ohlone College counselor before making any decisions about your academic future. Counselors are available for appointments or on a walk-in basis in Building 1, first floor.

1. Determine if
   a. you want to earn a Certificate of Completion, which consists of 7-17 units. Go to #2.
   b. you want to earn a Certificate of Achievement, which consists of 18 units or more. Go to #3.
   c. you want to earn an associate degree from Ohlone College. Go to #4.
   d. you want to transfer to a four-year college with a degree from Ohlone College. Go to #5.
   e. you want to transfer to a four-year college without a degree from Ohlone College. Go to #6.

2. Certificate of Completion
   a. Select the certificate(s) you want to attain from the list of programs on pages 48-49.
   b. Refer to the appropriate curriculum guide on the page referenced on the list.
   c. Complete all of the required courses with the minimum Grade Point Average and residency requirement.
   d. Apply for awarding of the certificate by the date published in the Class Schedule via your WebAdvisor account or submit an application to the Office of Admissions and Records.

3. Certificate of Achievement
   a. Select a major that offers a Certificate of Achievement from the list of programs on pages 48-49.
   b. Complete all the courses required for the Certificate of Achievement. The major requirements are listed on the Curriculum Guides on pages 58-73.
   c. Complete all of the required courses with the minimum Grade Point Average and residency requirement.
   d. Apply for awarding of the certificate by the date published in the Class Schedule via your WebAdvisor account or submit an application to the Office of Admissions and Records.

4. Associate degree
   a. Read the associate degree requirements on page 39.
   b. Determine which General Education Plan (A, B, or C) most corresponds with your academic goals. Refer to the General Education Plans/Major Options Chart on page 41 for guidance or consult a counselor.
   c. Select a major from the programs on pages 48-49. The associate degree requirements are listed on the Curriculum Guides on pages 50-73. Note that not all of the programs are comprehensive enough to constitute a major, so you must select a program from those listed under the Transfer, AA, or AS columns.
   d. Fulfill all the requirements for General Education and for the major in order to earn an associate degree. If the courses you complete do not total at least 60 units, you must select additional elective courses to reach a total of 60 units.
   e. Complete all of the required courses with the minimum Grade Point Average and residency requirement.
   f. Apply for graduation by the date published in the Class Schedule via your WebAdvisor account or submit an application to the Office of Admissions and Records.

5. Transfer with an associate degree
   a. Refer to the transfer information on pages 43-44.
   b. Determine which General Education Plan (B or C) most corresponds with your academic goals. Refer to the General Education Plans/Major Options Chart on page 41 for guidance or consult a counselor.
   c. Select a major from the programs on pages 48-49. The associate degree requirements are listed on the Curriculum Guides on pages 50-73. Note that not all of the programs are comprehensive enough to constitute a major, so you must select a program from those listed under the Transfer, AA, or AS columns.
   d. Consult http://www.assist.org for the most current information regarding transferable courses and articulation agreements between Ohlone and UC and CSU campuses.
   e. Fulfill all the requirements for General Education and for the major in order to earn an associate degree. If the courses you complete do not total at least 60 units, you must select additional elective courses to reach a total of 60 units.
   f. Complete all of the required courses with the minimum Grade Point Average and residency requirement.
   g. Apply for graduation by the date published in the Class Schedule via your WebAdvisor account or submit an application to the Office of Admissions and Records.
   h. Request a General Education Certification from the Office of Admissions and Records.
   i. Request that your official Ohlone College transcripts are sent to your transfer institution.

6. Transfer without a degree
   a. Refer to the transfer information on pages 43-44.
   b. Follow the CSU (Plan B) General Education Requirements on page 46 for a campus of the California State University or follow the IGETC (Plan C) General Education Requirements on page 47 for a campus of the University of California.
   c. Consult http://www.assist.org for the most current information regarding transferable courses and articulation agreements between Ohlone and UC and CSU campuses.
   d. See the IGETC (Plan C) General Education requirements on page 47 if you have not yet decided between a CSU or UC. You should also see a counselor to help you make the decision about campuses, majors, and General Education options.
   e. Fulfill the General Education requirements of either Plan B or Plan C.
   f. Complete the courses with the minimum Grade Point Average.
   g. Meet with a counselor to determine if you can also earn a degree before you transfer.
   h. Request a General Education Certification from the Office of Admissions and Records.
   i. Request that your official Ohlone College transcripts are sent to your transfer institution.
ASSOCIATE OF ARTS AND ASSOCIATE OF SCIENCE DEGREES

The awarding of an associate degree is intended to represent more than an accumulation of units. It is to symbolize a successful attempt on the part of the College to lead students through patterns of learning experiences designed to develop certain capabilities and insights. Among these are the ability to think and to communicate clearly and effectively both orally and in writing, to use mathematics, to understand the modes of inquiry of the major disciplines, to be aware of other cultures and times, to achieve insights gained through experience in thinking about ethical problems, and to develop the capacity for self-understanding. In addition to these accomplishments, the student shall possess sufficient depth in some field of knowledge to contribute to lifetime interest.

Students are provided with several options for fulfilling the requirements for an associate degree at Ohlone. Each is designed to meet specific educational goals. It is imperative for students to meet early and often with a counselor to both plan and maintain their educational plan. The three categories of majors and three patterns of general education are described below and can be combined to meet various educational goals. (Refer to the chart on page 41.)

Students are eligible for graduation upon the completion of a general education pattern, a major, and an accumulated total of 60 semester units in degree-applicable courses with a minimum of a C (2.0) grade point average (GPA) and with a minimum of a C (2.0) GPA in all courses in the major field (including major field electives and supporting courses).

General Majors

Students may fulfill a major in one of five general areas (Business, Liberal Arts, Fine Arts, Natural Science, or Social Science) by completing a minimum of 20 units selected from the departments listed on page 50. Upon completion of these 20 units; the general education requirements specific for either Plan A, B, or C; and any necessary elective requirements, students will be awarded an Associate of Arts degree in the specified area.

Transfer Majors

Transfer associate degrees are designed to prepare students for a baccalaureate major by fulfilling many of the lower division major and general education requirements at the California State University (CSU) and University of California (UC) campuses. While the core courses required in the transfer degrees fulfill many of the lower division requirements, students are advised to meet with their counselor to assess the course requirements for specific universities. Upon completion of the transfer major, the general education requirements specific for either Plan A, B, or C; and any necessary elective requirement, the student will be awarded an Associate of Arts or an Associate of Science degree in the specified area.

Occupational Majors

Occupational programs are available to students interested in preparing for employment in the fields listed on pages 58-73. Occupational majors are not designed as transfer programs; students are advised to consult with a counselor if they wish to consider transfer possibilities. Most of the occupationally oriented programs lead either to an associate degree or to a Certificate of Achievement, the latter usually being one year to complete. It is possible for students to enroll in specific individual courses from many of these programs for personal benefit without completing a total program; however, some programs have separate admissions requirements and many courses have prerequisites. Upon completion of an approved occupational major; the general education requirements specific for either Plan A, B, or C; and any necessary elective requirements, students will be awarded an Associate of Arts or an Associate of Science degree in the specified area.

ASSOCIATE DEGREE: GRADUATION INFORMATION

The successfully completed Associate of Arts General Education pattern may be applied to one or more Associate of Arts degrees; the successfully completed Associate of Science General Education pattern may be applied to one or more Associate of Science degrees.

Upon completion of graduation requirements, the major field will appear on the student’s permanent record, all transcripts, and on the diploma. Students may satisfy graduation requirements in effect at the first time of attendance at Ohlone College or in effect any subsequent year they completed units. (See Catalog Rights Policy on page 36.) Whichever catalog year is selected, all graduation requirements must be completed within that pattern. Of the 60 units required for graduation, 12 units must be completed at Ohlone College.

Degree applications must be submitted no later than the end of the eighth week of the semester in which the student expects to complete requirements. Please refer to the Academic Calendar for specific dates. College transcripts of all prior work must be on file in the Office of Admissions and Records before the application can be processed. The three dates that may be posted on a transcript certifying graduation are the last day of the Fall or Spring semesters or the last day of the Summer session. There is only one formal commencement ceremony held each year in the spring. All graduates who complete requirements during the college year or the ensuing Summer Session are encouraged to participate in the graduation ceremony. Students with a cumulative grade point average in all college work applied toward the degree between 3.20 and 3.49 inclusive will graduate “With Honors.” All students with a cumulative GPA between 3.50 and 4.00 inclusive will graduate “With Highest Honors.” These notations will be included on the diploma.
GENERAL EDUCATION

General Education Philosophy and Student Learning Outcomes

The three patterns of General Education courses (Plans A, B, and C) provide a comprehensive and well-rounded education that promotes the student’s personal, cultural, and intellectual growth. Completing these courses will promote personal awareness and growth as students adapt and grow in a changing world with a comprehension of the past, present, and future and an enhanced ability to address social, ethical, and philosophical issues. Students will grow culturally, developing an appreciation of human differences and cultural heritages which will enhance their ability to live interdependently as ethical citizens within a culturally diverse and complex world. Finally, completing general education courses will instill intellectual curiosity and analytical thinking conducive to lifelong learning. Development of skills in such varied fields as the natural sciences, the social sciences, fine arts and humanities, English composition, mathematics, critical thinking, foreign languages, cultural diversity, physical education, and information competency will enable students to transfer and apply knowledge in multiple domains and solve everyday life problems.

General Education: Plan A

Ohlone College General Education Pattern

The Plan A General Education pattern requires a minimum of 18 units in completing an Ohlone-specific general education pattern, including cultural diversity, wellness, and information competency components. Plan A requirements may also be met through the reciprocity agreement explained on page 42. The Plan A General Education pattern is recommended for students whose immediate goal is to complete an associate degree with either a general, occupational, or transfer major. By coupling this pattern with an approved transfer major, students may meet most of the lower division major preparation for transfer within that major. In some occupational majors students may be required to complete more than 60 units to obtain an associate degree. Students are advised to consult with a counselor.

The following information presents the General Education Philosophy and Student Learning Outcomes for the Plan A General Education pattern. The major areas include:

I. Natural Sciences
II. Social and Behavioral Sciences
III. Fine Arts and Humanities
IV. Language and Rationality
V. Physical Education/Wellness
VI. Cultural Diversity
VII. Information Competency

Area I Natural Sciences

Courses in the natural science are those which examine the physical universe, its life forms, and its natural phenomena. To satisfy the General Education Requirement in natural sciences, a course shall be designed to help the student develop an appreciation and understanding of the scientific method and encourage an understanding of the relationships between science and other human activities. This category would include introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics, and other scientific disciplines. (Title 5)

Upon receipt of an associate degree from Ohlone College, a student will be able to:

1. Solve scientific problems in a variety of contexts.
2. Demonstrate an understanding of scientific method to distinguish between science and pseudo-science, analyze data, make observations, draw conclusions, and distinguish between hypothesis and theory.
3. Analyze basic concepts of biological and/or physical science to evaluate and debate the validity of scientific information presented in class, the media, and/or other source material.
4. Use the scientific method to distinguish between science and pseudo-science, analyze data, make observations, draw conclusions, and distinguish between hypothesis and theory.
5. Solve scientific problems in a variety of contexts.

Area II Social and Behavioral Sciences/American Institutions

Courses in the social and behavioral sciences are those which focus on people as members of society. To satisfy the general education requirement in social and behavioral sciences, a course shall be designed to develop an awareness of the methods of inquiry used by the social and behavioral sciences. It shall be designed to stimulate critical thinking about the ways people act and have acted in response to their societies and should promote appreciation of how societies and social subgroups operate. This category would include introductory or integrative survey courses in cultural anthropology, cultural geography, economics, history, political science, psychology, sociology, and related disciplines. (Title 5)

Upon receipt of an associate degree from Ohlone College, a student will be able to:

1. Distinguish the ways human cultures develop and how people behave within the context of their cultures.
2. Demonstrate an understanding and appreciation of social, political, and economic institutions within a historical perspective.
3. Identify and apply the major theories and methods of inquiry of the social and behavioral sciences to specific cultures and social groups.

Area III Fine Arts/Humanities

A. Fine Arts – Courses which focus on the arts in a context which is historical, analytical, or theoretical. These courses address the need for the student to develop an aesthetic understanding and ability to make value judgments in a measurable and integrative way. (Ohlone College definition)

Upon receipt of an associate degree from Ohlone College, a student will be able to:

1. Appraise and evaluate the aesthetic elements of the fine and performing arts.
2. Analyze the contributions of the fine and performing arts from historical, cultural, and theoretical perspectives.

B. Humanities – Courses in the humanities are those which study the cultural activities and artistic expressions of human beings. To satisfy the general education requirement in the humanities, a course shall be designed to help the student develop an awareness of the ways in which people through the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation and help the student develop aesthetic understanding and an ability to make value judgments. Such courses could include introductory or integrative courses in the arts, foreign language, literature, philosophy, and religion. (Title 5)

Upon receipt of an associate degree from Ohlone College, a student will be able to:

1. Appraise the role of the arts, foreign language, literature, philosophy, and religion in cultural development.
2. Assess the relationships among the arts, the humanities, and the self.
Area IV Language and Rationality

Courses in language that cover the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system the student uses. A. English Composition: Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing. B. Communication and Analytical Thinking: Courses fulfilling the communication and analytical thinking requirement include oral communication, mathematics, logic, statistics, computer languages and programming, and related disciplines. C. Mathematics: MATH-155 or a passing score on the placement test will satisfy this requirement. (Title 5; Ohlone College adds Area C Mathematics)

A. English Composition
Upon receipt of an associate degree from Ohlone College, a student will be able to:
1. Write a well-organized paper in Standard English which presents a main idea supported by effective documentation and details.
2. Demonstrate the ability to write effectively using correct grammar.
3. Choose the appropriate style and method of communication for a variety of contexts.

B. Analytical Thinking and Oral Communication
Upon receipt of an associate degree from Ohlone College, a student will be able to:
1. Think logically and critically to solve problems, explain conclusions, and evaluate evidence or critique the thinking of self and others.
2. Demonstrate the ability to make an effective decision in a variety of settings.

C. Math Proficiency
Upon receipt of an associate degree from Ohlone College, a student will be able to demonstrate the ability to think analytically by applying the concepts and techniques of arithmetic and beginning algebra to the solution of real-world math applications.

Area V. Physical Education/Wellness

Physical Education courses are activity based. Wellness courses are not necessarily activity based and have a focus on such topics as nutrition, stress management, weight management, fitness, and acupressure. (Ohlone College definition)

A. Physical Education
Upon receipt of an associate degree from Ohlone College, a student will be able to:
1. Maintain a regular regimen of physical activity and/or exercise.
2. Demonstrate fundamental skills incorporating the rules and strategies of the activity.

B. Wellness
Upon receipt of an associate degree from Ohlone College, a student will be able to formulate a personal wellness plan incorporating the basic principles of a healthy lifestyle.

Area VI Cultural Diversity, AA, AS Degree (3 units)

Definition: Courses which satisfy the Ohlone College cultural diversity requirement shall be those courses which focus study on historically underrepresented group(s) in the United States of America in relation to the majority Eurocentric culture. Additionally, courses may focus on other group perspectives(s) such as culture, religion, disability, age, gender, sexual orientation, and/or socioeconomic background. The experience or experiences of the historically underrepresented culture(s) or group perspectives in U.S. society should be a primary focus of a course which qualifies. A course’s approved description, objectives, outline, syllabi, and other instructional materials such as textbooks shall reflect this intent. Course authors seeking inclusion of a course on the approved cultural diversity list should submit materials to the Cultural Diversity Subcommittee for review. (Ohlone College definition; Title 5 requires ethnic studies to be offered in at least one of the required areas.)

Upon receipt of an associate degree from Ohlone College, a student will be able to:
1. Explain the main cultural focus of the course.
2. Examine the relevant issues regarding one or more cultural groups.
3. Develop sensitivity and skills in living and working in a diverse community.
4. Analyze the various values, customs, and lifestyles of the cultural group(s) under study in relation to the majority Eurocentric culture.
5. Examine how the group(s) help(s) structure contemporary American experiences.

GENERAL EDUCATION PLANS/MAJOR OPTIONS CHART

<table>
<thead>
<tr>
<th>Plan A</th>
<th>Plan B</th>
<th>Plan C</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Major</td>
<td>For students whose immediate educational goal is to complete an associate degree. Provides maximum flexibility in course selection.</td>
<td>For students whose goal is to complete lower division General Education for transfer to a CSU; may require additional lower division major preparation after transfer.</td>
</tr>
<tr>
<td>Ohlone Transfer Degree Major</td>
<td>For students desiring to complete most lower division major preparation courses; will require additional GE after transfer.</td>
<td>For students whose goal is to complete most lower division major preparation and General Education course requirements for transfer to a CSU.</td>
</tr>
<tr>
<td>Occupational Major</td>
<td>For students whose immediate educational goal is to complete an associate degree with a specific vocational major.</td>
<td>For students whose goal is to complete lower division General Education for transfer to a CSU and to complete a specific vocational major.</td>
</tr>
</tbody>
</table>
Area VII Information Competency, AA, AS Degree (1 course)

Definition: 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 technological literacy. Information Competency includes consideration of the ethical and legal implications of information and requires the application of both critical thinking and communication skills. As stated in the 1998 Academic Senate position paper, students must be able to demonstrate certain key skills:

State a research question, problem, or issue; determine information requirements in various disciplines for the research questions, problems, or issues; use information technology tools to locate and retrieve relevant information; organize information; analyze and evaluate information; understand the ethical and legal issues surrounding information and information technology; apply the skills gained in information competency to enable lifelong learning.

Upon receipt of an associate degree from Ohlone College, a student will be able to:

1. Determine the nature and extent of the information needed.
2. Access needed information effectively and efficiently.
3. Evaluate information and its sources critically and incorporate selected information into his or her knowledge base and values.
4. Use information effectively to accomplish a specific purpose.
5. Recognize many of the economic, legal, and ethical issues surrounding the use of information and access and use information ethically and legally.

General Education: Plan B
California State University General Education Breadth Requirements (CSU GE)

The Plan B General Education pattern requires a minimum of 39 units in completing a specific CSU-approved General Education pattern. This option is especially for students whose immediate goal is to transfer to a CSU. The Plan B pattern is recommended for students completing one of the five approved general majors and it enables students to meet lower division general education requirements at a CSU. Plan B may also be coupled with either the transfer or occupational majors; however, students may be required to complete more than 60 units to obtain an associate degree. Students are advised to consult with a counselor.

General Education: Plan C
Intersegmental General Education Transfer Curriculum (IGETC)

The Plan C General Education pattern requires a minimum of 35-38 units in completing a General Education pattern acceptable at either a CSU or a UC. This option is recommended for students whose immediate goal is to transfer to a UC or CSU or for students who intend to transfer but are not yet sure if they will be going to a UC or CSU. Plan C is generally combined with one of the five general majors and it enables students to meet the lower division general education requirements at either a UC or CSU. Plan C may also be coupled with either the transfer or occupational majors; however, students may be required to complete more than 60 units to obtain an associate degree. Students are advised to consult with a counselor.

General Education: Reciprocity with Community Colleges

The Ohlone Community College District has entered into a mutual agreement with nine other local community colleges to accept the General Education of these colleges as completed. The participating colleges are Chabot (Hayward), De Anza College (Cupertino), Evergreen Valley College (San Jose), Foothill College (Los Altos Hills), Gavilan College (Gilroy), Las Positas College (Pleasanton), Mission College (Santa Clara), San Jose City College (San Jose), and West Valley College (Saratoga).

Therefore, students who obtain a certification of completion of Associate Degree General Education or who complete an associate degree at any one of the participating colleges will have both their General Education course work and graduation proficiencies accepted as completed at any of the participating campuses. No additional general education course work will be required if the certification is officially presented. Students will still be required to complete all courses or prerequisites needed for a major. The agreement also means that the other colleges will accept the General Education pattern of Ohlone College if a certification is presented to the member colleges. The agreement will be reviewed periodically.

General Education: Exemptions for Students with Baccalaureate Degrees

A student who has an earned degree from a regionally accredited college or university is not required to fulfill the general education requirements to earn an associate degree from Ohlone College.

CERTIFICATE PROGRAMS

In addition to degree programs, Ohlone offers two kinds of certificate programs: the Certificate of Achievement and the Certificate of Completion.

Certificate of Achievement

Certificates of Achievement are awarded for the completion of an organized series of courses in a particular emphasis area. These certificates have been approved by the College faculty and the California Community College Chancellor’s Office. Certificates of Achievement consist of 18 or more units. Generally, these certificates parallel the major course of study within an occupational associate degree program. Thus, a student always has the option of completing the additional general education, elective, and supporting course requirements to complete an associate degree as well.

A Certificate of Achievement will be granted to a student who meets the following requirements:

1. Maintains a C (2.00) grade point average in the specified courses.
2. Completes satisfactorily a specific curriculum or recognized sequence of courses as prescribed by selected faculty and/or an occupational advisory committee, approved by the College Board of Trustees, and published in the applicable curriculum guide.
3. Completes six units at Ohlone College for the certificate to be awarded by Ohlone.
An application for the Certificate of Achievement must be submitted no later than the end of the eighth week of the semester in which the student expects to complete the requirements. Refer to the Academic Calendar for specific dates. Official college transcripts of all prior work must be on file in the Office of Admissions and Records before the application can be processed.

**Certificate of Completion**

Certificates of Completion are awarded for the completion of an organized course of study for a specific purpose, usually career or job related. These certificates have been approved by the College faculty and consist of a maximum of 17 units. Certificates of Completion are designed to allow students to finish a program in a shorter period of time. Although not as comprehensive as Certificates of Achievement, these certificates do serve to recognize student achievement in a particular emphasis area.

A Certificate of Completion will be granted to a student who meets the following requirements:

1. Maintains a C (2.00) grade point average in the specified courses.
2. Completes satisfactorily a specific curriculum or recognized sequence of courses as prescribed by selected faculty and/or an occupational advisory committee, approved by the College Board of Trustees, and published in the applicable curriculum guide.
3. Completes 50% of the required units at Ohlone College for the certificate to be awarded by Ohlone.

**TRANSFER TO FOUR-YEAR INSTITUTIONS**

Many of Ohlone’s students transfer to a four-year college or university after completing lower-division (freshman and sophomore level) courses at Ohlone College. Students who are preparing to transfer need to decide where they will transfer and what their major will be. Students who have not yet made these decisions should meet with a counselor to explore their options, obtain relevant information, and get help making a decision. Students are also encouraged to utilize the publications and services available in the Student Success Center. Counselors will work with students to complete a Student Educational Plan that can streamline the time and number of courses students need to complete their educational goals.

**Transfer to the California State University**

Students are eligible for admission as a CSU upper division transfer student if they complete 60 or more transferable semester units and

- Have a college grade point average of 2.00 or better (2.40 for non-California residents) in all transferable college units attempted;
- Are in good standing at the last college or university attended;
- Have completed or will complete prior to transfer at least 30 semester units of courses equivalent to general education requirements with the grade of C or better. The 30 units must include all of the general education requirements for communication in the English language (English composition, oral communication, and critical thinking) and at least one course of at least 3 semester units in college level mathematics.

Students who have not met the aforementioned requirements may qualify for transfer with less than 60 transferable units if they:

- Have a college grade point average of 2.00 or better in all transferable college units attempted;
- Are in good standing at the last college or university attended prior to transfer;
- Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the CSU subject deficiencies from high school;
- Meet the eligibility index required for a CSU freshman.

Note: Students should always contact the CSU campus of choice to determine whether there are limits on admission as a lower division transfer student.

Many majors have specific course requirements that must be met to be eligible for admission. A higher grade point average than the minimum may also be required. Students should consult a counselor for more information. Because the requirements for a particular major may differ from one CSU campus to the next and because requirements may change yearly, students should consult regularly with a counselor when selecting courses.

Students who have completed 39 units of general education course work required by the CSU can request that Ohlone College certify the completion of CSU General Education. (See Plan B General Education requirements on page 41.) After students transfer they must also complete any additional upper division or other additional units specifically required by the CSU campus. Requests for general education certification may be obtained at the Office of Admissions and Records and should be submitted at the end of the student’s final semester at Ohlone College, prior to beginning courses at the transfer institution.

Students who meet specified subject area minimum requirements may request that Ohlone certify partial certification. Students would then be required to complete the remaining general education requirements at the transfer campus according to its own procedures and rules.

Students who have completed courses at other institutions should meet with a counselor to determine if those courses meet general education requirements for transfer. Students are responsible for providing transcripts and course descriptions (such as catalog descriptions or class syllabi) to the Office of Admissions and Records if they desire courses to be evaluated for possible certification.

Courses that are transferable to the CSU have a notation next to them in both the Class Schedule and catalog identified as “Accepted for credit at CSU” or “Accepted for credit at CSU and UC.” Courses may be accepted as general electives, as meeting general education requirements, or as meeting lower division major requirements; students should see a counselor to determine how each course will transfer. Courses without that annotation are not guaranteed to be transferable.

The term “impacted,” when applied to a program or major, means that the major usually attracts many more applicants than it can accept. Consequently, there are special requirements and selection procedures for admission. Students intending to transfer and pursue these majors should consult with a counselor and write the transfer institution to request its most recent admissions information.

Impacted programs at a CSU campus can vary from year to year. Because there are over 80 impacted programs at 18 different CSU campuses for 2007-2008, students should check with the CSU of their choice before submitting an application to see if their major is impacted. Updated information regarding impacted programs is available online at www.calstate.edu/AR/impaction-info.shtml.

**Transfer to the University of California**

Course requirements vary from one UC campus to the next; therefore, students should work with a counselor to first select a particular UC campus and then formulate a strategy (or Student Educational Plan) for completing that campus’ admissions requirements, major preparation requirements, and appropriate general education requirements.

Students should consult the catalog of the UC campus of their choice to find out specific details regarding transfer, major, and breadth requirements. All UC catalogs are available online; in the Transfer Center located in Building 1, first floor; and in the offices of individual counselors. UC transfer information can be found online at http://www.universityofcalifornia.edu/admissions/.

To be eligible for transfer as a junior, students must have completed at least 60 units of UC-transferable credit and meet specific admission requirements. In most cases, students may transfer up to 70 semester units of credit from a community college. At most UC campuses admission is competitive and a grade point average higher than the 2.40 minimum is required. Many UC campuses do not accept lower division transfers (students with less than 60 units of transferable college credit). No more than 14 of the UC-transferable units may be graded CR. All courses required in a major must be taken for a letter grade.
The Ohlone College Course Catalog and Class Schedule identify UC transferable courses with the notation: “Accepted for credit at CSU and UC” next to the course description. Some courses have credit limitations. Courses may be accepted as general electives, as meeting general education requirements, or as meeting lower division major requirements; see a counselor to determine how each course will transfer.

The term “impacted,” when applied to a program or major, means that the program usually attracts many more applicants than it can accept. Consequently, there are special requirements and selection procedures for admission. Students should contact the Admissions Office at the UC campus or see an Ohlone College counselor for admission requirements to the UC campus and desired major.

Transfer to Private and/or Out-of-State Colleges and Universities

Each year many Ohlone college students move on to pursue their fields of interest and earn their bachelor's degree at private and/or out-of-state four-year institutions. Admissions requirements and general education requirements vary from college to college. To make transferring to a private or independent institution as smooth as possible, students should obtain a catalog from that institution and work closely with a counselor to plan a course of study.

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

IGETC is a general education pattern that community college transfer students can use to fulfill lower division general education requirements in the CSU or many colleges in the UC system. IGETC is designed for use by California community college students. Students who completed transfer units at a CSU, UC, or private college should consult with a counselor to determine if they are eligible to use IGETC. (See Plan C General Education requirements on page 47.) IGETC is only one way to fulfill the lower division general education requirements of the UC or CSU.

IGETC is not recommended for certain majors and certain colleges and some colleges do not accept IGETC. IGETC is not appropriate for UC Berkeley's College of Chemistry, College of Engineering, College of Environmental Design, College of Natural Resources, and the Haas School of Business; UC San Francisco; UC San Diego's Eleanor Roosevelt College and Revelle College; and engineering departments at several UC campuses. Also, students pursuing majors that require extensive lower division major preparation may not find the IGETC option to be advantageous and may be better served by taking courses that fulfill the general education requirements of the UC or CSU campus to which they plan transfer.

IGETC will probably be most useful for students who want to keep their options open before making a final decision about transferring to a particular CSU or UC campus or choosing a particular major. IGETC does not guarantee admission to the university. Students must meet admissions requirements, major prerequisites, and transferable unit requirements.

To be certified under IGETC, the entire pattern must be completed prior to transfer. All IGETC courses must be completed with a grade of C or better (C- is not acceptable). Students who do not complete all of the IGETC breadth and general education requirements before transferring will be subject to the regulations regarding breadth and general education requirements at the campus to which they have been admitted. Students must request that the IGETC certification be sent to the four-year campus they will be attending. This must be done after all IGETC courses have been completed and before beginning courses at the university.

TRANSFER PROGRAMS

Students planning to transfer to four year colleges and universities may complete their lower division (freshman and sophomore) general education requirements AND lower division major field courses while at Ohlone College. Most transferable courses offered at Ohlone have been articulated with the University of California, California State Universities, and many private institutions. Students may access www.assist.org to see which courses transfer, to which CSU and UC campuses courses transfer, and how courses are counted. Students are encouraged to seek the advice of a counselor in order to develop a personalized educational plan. For information on any of these transfer programs, students should contact the Counseling Department.

Transfer Admission Agreements (TAAs) and Transfer Admission Guarantees (TAGs)

Transfer Admission Agreements (TAAs) or Transfer Admission Guarantees (TAGs) are contracts between the student, Ohlone College, and a participating university. An accepted TAA or TAG application guarantees the student admission to the university upon completion of stated requirements. Students may be eligible for a TAA or TAG once they have completed 30 transferable units with at least a 2.80 GPA. Interested students must meet with their major adviser to complete a transfer agreement one year prior to transferring and also formally apply to the university during their open filing period. Students are limited to writing two TAA/TAGs per academic year. Please visit http://www.ohlone.edu/org/transfer/taa.html for more information.

Participating Universities:
California State University, East Bay (TAG)
California State University, Monterey Bay (TAA)
San José State University (TAA)
Santa Clara University (TAA)
University of California, Davis (TAG)
University of California, Irvine (TAG)
University of California, Merced (TAG)
University of California, Riverside (TAG)
University of California, Santa Barbara (TAG)
University of California, Santa Cruz (TAG)

Concurrent Enrollment Programs exist with the University of California, Berkeley and California State University, East Bay. An Ohlone College student may enroll concurrently with one of the two participating universities while still taking courses at Ohlone College. Eligibility requirements include completion of 20 units of transferable work and maintenance of the requisite GPA. See a counselor for details and refer to http://www.ohlone.edu/org/transfer/concurrent-enrollment.html for more information.

The Lower-Division Transfer Patterns (LDTP) Project

The Lower-Division Transfer Patterns (LDTP) project, sponsored by the California State University (CSU) and supported by the California Community Colleges, presents potential transfer students with a set of “road maps” to follow that will ensure appropriate academic preparation for studies at CSU and that will decrease time to graduation once these students enter the CSU. The LDTP for each discipline has a statewide as well as campus-specific components. The statewide component of the LDTP is appropriate for any CSU campus that offers the major and is comprised of general education coursework as well as some courses within the discipline. The campus-specific component identifies discipline related coursework relevant to the major at the specific CSU campus. Together these components for an LDTP discipline will total at least 60 units, the number needed to transfer to CSU as an upper-division student.

The LDTPs add another option to the transfer preparation process. LDTPs will not replace current major articulation with CSU campuses or current TAG or TAA admission programs. LDTP is one of many ways to prepare for study at the CSU. For students who know exactly what major they wish to pursue and at which CSU campus, current major preparation articulation and transfer admission agreements are quite useful. For students who are initially uncertain about a major and/or CSU campus, the LDTP provides a measure of flexibility and options for preparation.
# OHLONE COLLEGE GENERAL EDUCATION: PLAN A

The general education breadth requirements for this plan are unique to Ohlone and include cultural diversity, wellness, and information competency components.

### AREA I  NATURAL SCIENCE  AA Degree (at least 3 units)  AS Degree (6 units)

**GE requirements are met by completion of lecture or lecture/lab courses, not by lab courses alone.**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</table>

### AREA II  SOCIAL SCIENCE  AA, AS Degree (3 units)


*Courses will also count toward meeting Area VI Cultural Diversity requirement.*

### AREA III  FINE ARTS/HUMANITIES  AA Degree (3 units from A and 1-4 units from B)  AS Degree (3 units from A or B)

**A. FINE ARTS: ART 100, 101, 103A, 103B*, 103B; IS 101; MUS 100, 101, 102*, 103, 104*, 120A, 120B, 125; TD 100, 102, 109**


*Courses will also count toward meeting Area VI Cultural Diversity requirement.*

### AREA IV  ANALYTICAL THINKING AND ORAL COMMUNICATION  AA, AS Degree

(3 units from A and 3 units from B; complete C) Requires C grade or better in each of the three areas.

**A. ENGLISH COMPOSITION: ENGL 101A; JOUR 101A**

**B. ANALYTICAL THINKING AND ORAL COMMUNICATION (3 units): BA 123; CS 102, 104A, 113, ENGL 101C, MATH 101A, 101B, 101C, 152 or 152A & 152B, 153, 155, 156, 159, 163, 166, 168, 181, 188, 196; PHIL 104, 107; SPCH 101, 102, 104, 106**

Completion of the RN Program satisfies this requirement.

**C. MATH PROFICIENCY: MATH 155 or higher**

### AREA V  PHYSICAL EDUCATION/WELLNESS  AA, AS Degree

Complete one of the following options:

**A. PHYSICAL EDUCATION:** Complete any two of the following courses: ATHL 220-231; KIN 256; PE 300-377, 393-397; TF 141A, 141B, 142A, 142B, 143A, 143B, 143C, 144A, 144B, 145A, 145B, 148A, 148B; OR

**B. WELLNESS:** KIN 251, 257, 258, OR AH 130, 131

**C. Complete the PTA Program with PTA 119**

**D. Present DD214 Form (Military Service) to the Office of Admissions and Records. (See a counselor for more details)**

### AREA VI  CULTURAL DIVERSITY  AA, AS Degree (3 units)

Completion of the RN Program satisfies this requirement.

**ANTH 102, 104; ART 103A, 103B; ASL 140, 142, 145; CHS 101, 102, 106A, 112; DEAF 311, 330; ECS 309; ENGL 115, 130, 135; HIST 112, 114, 115; IS 110, 120; MUS 102, 104; PHIL 110, 112; SOC 101, 102, 106; SPCH 105; WS 115, 120**

**NOTE:** Successfully completed Cultural Diversity courses may be used to meet Area VI and one other applicable General Education Area requirement. Units will be recorded only once.

### AREA VII  INFORMATION COMPETENCY  AA, AS Degree (1 course)

Not required if enrolled prior to Fall 2001. Also not required of Nursing students starting in Fall 2002 or PTA students starting Spring 2003.

**CAOT 153; CS/LS 151; LS 101**

**ELECTIVES** (to bring total units to 60): Any associate degree applicable course included in the College Catalog and not previously applied to the major field requirements or to one of the seven areas above may be used to fulfill this section.

**ADVANCED PLACEMENT:** Completion of Advanced Placement Exams may satisfy some GE requirements; see 2005-06 catalog for approved exams, acceptance scores, and equivalent courses.

**NOTE:** Students who have satisfied the General Education requirement for one of the colleges participating in the reciprocity agreement (Chabot, De Anza, Evergreen, Foothill, Gavilan, Las Positas, Mission, San Jose City, West Valley) OR students who have completed a BA/BS from a regionally accredited college and university do not need to fulfill Ohlone's GE.
GENERAL EDUCATION: PLAN B (CSU GE)

The general education breadth requirements for this degree are the same as the requirements for the California State University General Education Breadth Requirements (CSU GE).

In the process of completing this coursework the student must also fulfill these general requirements:

1. Earn at least a 2.0 grade point average overall for the CSU GE coursework.
2. Earn a grade of C or better for each course in the Oral Communication, Written Communication, Critical Thinking, and Mathematics/Quantitative Reasoning categories.

<table>
<thead>
<tr>
<th>AREA A</th>
<th>CRITICAL THINKING &amp; ORAL COMMUNICATION (9 units*)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
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<tr>
<td>A1</td>
<td>COMMUNICATION – Oral:</td>
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<td>SPCH 101, 103 (3)</td>
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<td>A2</td>
<td>COMMUNICATION – Written:</td>
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<td>ENGL 101A (4)</td>
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<td>A3</td>
<td>CRITICAL THINKING:</td>
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<td>ENGL 101C; PHIL 104, 107; SPCH 102, 104, 106 (3)</td>
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<tr>
<th>AREA B</th>
<th>NATURAL SCIENCE (9 units*)</th>
<th>Completed</th>
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<tr>
<td>B1</td>
<td>SCIENCE (include at least one laboratory course)</td>
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<td></td>
<td>A. BIOLOGICAL (One course)</td>
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<td>Lab: ANTH 101; BIOL 101A, 103A, 104, 105, 141</td>
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<td>Non-Lab: BIOL 105, 107, 108, 109, 141</td>
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<td>B. PHYSICAL (One course)</td>
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<td>Lab: ASTR 101A &amp; 102, 101B &amp; 102; CHEM 101A, 102, 106A, 109, 112A; CNET 114; ENGL 114; GEOG 101; GEOL 101; 102 &amp; 102L, 103 &amp; 103L; PHS 135; PHYS 120, 121, 140, 141, 142</td>
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<td>Non-Lab: ASTR 101A, 101B; CHEM 108; GEOL 102, 103</td>
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<th>AREA C</th>
<th>HUMANITIES (9 units*)</th>
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<tr>
<td>C1</td>
<td>ART 100, 101, 103A, 103B, 131A, 131B, 161A; CAOT 161A; HIST 107, 141, 142, 143 (3); IS 100, 142, 143; MUS 100, 101, 102, 104, 110A, 120A, 120B, 122, 123, 125; SPCH 132; TD 100, 101, 102, 107, 109, 110, 114, 115A, 120A3, 126, 127, 152, 150, 152, 154, 159, 161, 162, 163, 164</td>
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<tr>
<th>AREA D</th>
<th>SOCIAL SCIENCES (9 units*)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
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<tr>
<td>D1</td>
<td>HISTORY/GOVERNMENT – Take one of the following combinations to fulfill the United States History, Constitution, and American Ideals requirement; both courses in the pattern must be completed at Ohlone College:</td>
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<td>• HIST 105 and HIST 117A</td>
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<td>• PS 102 and HIST 117B</td>
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<td>D2</td>
<td>One course from among: (If HIST 117A and B or HIST 117A and 105 are taken under D1 above, a course must be selected from a discipline other than history)</td>
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<td>• HIST 117A and HIST 117B</td>
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<td>• KIN 240, 251; PD 105; PSY 114; SOC 101, 105; WS 120</td>
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<tr>
<th>AREA E</th>
<th>LIFELONG UNDERSTANDING (3 units*) (At least 3 units from among):</th>
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<td>ANTH 102; BIOL 109; CFS 109; HLTH 101, 150; KIN 240, 251; PD 105; PSY 114; SOC 101, 105; WS 120</td>
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* Indicates minimum number of lower-division units required in each area. For Areas B, C, & D combined, the maximum number of units to be certified is 30. Units completed beyond that number may transfer as elective units. Students should refer to the current class schedule for the number of units for each course.

Courses completed at Ohlone College toward the satisfaction of general education requirements will be certified upon student request. It is strongly recommended that students request this certification to avoid the possibility of additional course/unit requirements at the transfer institution. Such requests should be made at the time that final Ohlone transcripts are being requested for transmittal to a CSU campus. The same form (Transcript/General Education Request Form) can be used for both such requests and is available at the Office of Admissions and Records.

After completing and being certified for the 39 lower division units, the student's upper division general education will be basically determined by the difference between the lower division units completed in each area and the total units required by the bachelor degree-granting state university or college.

The CSU Campus may not accept the certification if fewer than 24 general education units are completed before transfer.

ADVANCED PLACEMENT: Completion of Advanced Placement Exams may satisfy some GE requirements; see a counselor for approved exams, acceptance scores, and equivalent courses.
**GENERAL EDUCATION: PLAN C (IGETC)**

The general education breadth requirements are the same as the requirements for the Intersegmental General Education Transfer Curriculum (IGETC).

In the process of completing this coursework the student must also fulfill the following requirement:

> Earn a letter grade of C or higher in each course.

**Note:** IGETC certification must be completed prior to student transfer to UC.

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<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
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**AREA 1: ENGLISH COMMUNICATION** (9 units)

CSU – 3 courses required, one from each group A, B, and C.

UC – 2 courses required, one each from group A and B

A. **ENGLISH COMPOSITION** – ENGL 101A

B. **CRITICAL THINKING** – ENGL 101C

C. **ORAL COMMUNICATION** (CSU only) – SPCH 101

**AREA 2: MATHEMATICAL CONCEPTS/QUANTITATIVE REASONING** (3 units)


**AREA 3: ARTS AND HUMANITIES** (9 units) Three courses, at least one course from the Arts and one from Humanities.

A. **ARTS:** ART 100, 101, 103A, 103B; HIST 141, 142, 143; IS 100, 102, 104, 110A, 120A, 120B, 122, 123, 125; TD 100, 101, 102, 105.


**AREA 4: SOCIAL AND BEHAVIORAL SCIENCES** (9 units) Three courses from at least two disciplines or an interdisciplinary sequence.

ANTH 101, 102, 103, 104, 106; BA 102A, 102B; CHIL 102, 104; GEOG 102, 104; HIST 105; IS 110, 120; JOUR 155; PS 102, 103, 105; PSY 101, 105, 106; SOC 101, 102, 105, 106; SPCH 122; TD 120; WS 120

**AREA 5: PHYSICAL/BIOLOGICAL SCIENCES** (7-9 units) One Physical Science course and one Biological Science course; at least one must include a laboratory.

A. **PHYSICAL SCIENCE** (One course)

   Lab: ASTR 101A & 102, 101B & 102; CHEM 101A, 101B, 106A, 106B, 112A, 112B, 112C; GEOG 101; GEOL 102, 102L, 103, 103L; PHYS 102, 120, 121, 140, 141, 142, 125; PHS 135

   Non-Lab: ASTR 101A, 101B, CHEM 108, GEOL 102, 103, PHYS 108

B. **BIOLOGICAL SCIENCE** (One course)

   Lab: ANTH 101; BIOL 101A, 101B, 103A, 103B, 104, 106, 130

   Non-Lab: BIOL 105, 107, 108, 109, 141, 142

**UC REQUIREMENT ONLY – LANGUAGE OTHER THAN ENGLISH**

Proficiency equivalent to two years of high school study in the same language or one of the following:


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

Six semester units. Complete one of the four patterns:

- HIST 117A and HIST 117B
- HIST 117A and HIST 105
- HIST 117A and PS 102
- HIST 117B and PS 102

**NOTE:** Both courses in the pattern must be completed at Ohlone College to meet the U. S. History, Constitution, and American Ideals requirement. Students who use one or both of the courses listed in Pattern 1 or 2 to fulfill Area 4 must satisfy American History and Institutions at the transfer institution.

Some UC course credit is limited. Please consult a counselor for additional information.

**ADVANCED PLACEMENT:** Completion of Advanced Placement Exams may satisfy some GE requirements; see a counselor for approved exams, acceptance scores, and equivalent courses.
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ASSOCIATE DEGREE: GENERAL MAJORS

A student may indicate a major in one of the following five general areas. Complete a minimum of 20 units selected from the departments below.

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<th>BUSINESS (AA)</th>
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<th>FINE ARTS (AA)</th>
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<td>Theatre and Dance</td>
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<td>Social Sciences (see list below)</td>
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<td>Speech</td>
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*Required for Business Majors

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<th>NATURAL SCIENCE (AA)</th>
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TRANSFER DEGREES

Transfer degrees are associate degrees that are designed to prepare students for a baccalaureate major by fulfilling many of the lower division major and general education requirements at the California State University (CSU) and University of California (UC) campuses.

ART

AA Degree: Transfer Major

The Associate Degree in Art offered by Ohlone College is designed to prepare students for studying Fine Arts at most universities. While the core courses required in the AA Degree in Art will fulfill the lower division major requirements at many universities, students are advised to meet with their counselor to assess the course requirements for specific universities. This program will enable students to develop a strong foundation in art.

Requirements for AA Degree:

a) Complete the Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

(continued on next page)
MAJOR FIELD

ART-103A Survey of World Art History-Prehistoric Through 1300 C.E. 4
ART-103B Survey of World Art History-14th Century Through 20th Century (4)
ART-104A 2D Design 3
ART-104B 3D Design 3
ART-104C Color 3
ART-106A Descriptive Drawing 3
ART-117A Museum and Gallery Techniques 2

SUPPORTING COURSES

Select 8-10 units from the courses listed below; courses may not be duplicated from above.

ART-103A Survey of World Art History-Prehistoric Through 1300 C.E. 4
ART-103B Survey of World Art History-14th Century Through 20th Century 4
ART-106B Intermediate Descriptive Drawing 3
ART-107A Life Drawing 3
ART-108 Perspective Drawing 3
ART-109A Beginning Graphic Design I 3
ART-111A Painting–Color and Composition 3
ART-116A Basic Sculpture 3
ART-121A Introductory Ceramics I 3
ART-131A Fine Art Photography: The Early Years 2
ART-131B Fine Art Photography: The 2nd Century 2
ART-133A Black and White Photography 3
ART-134A Basic Color Photography 3
ART-139A Digital Photography 2
ART-150A Interior Design Concepts 3
ART-160A Computer Graphics I 4
ART-161A Digital Graphics I 2

Total Required Units: 26-28

BIOLOGY

AS Degree: Transfer Major

The Associate of Science Transfer Degree in Biology offered by Ohlone College is designed to prepare students for studying the Biological Sciences at most universities. The core courses required in the AS Degree in Biology will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in the life sciences, physical sciences, and mathematics. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs that require two years of college-level science and math.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s AS degree program in Biology meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

(continued on next column)
CHEMISTRY
AS Degree: Transfer Major

The Associate of Science Transfer Degree in Chemistry offered by Ohlone College is designed to prepare students for studying Chemistry at most universities. The core courses required in the AS Degree in Chemistry will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in chemistry, physics, and mathematics. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs that require two years of college-level science and math.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone's AS degree program in Chemistry meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

Requirements for AS Degree:

a) Complete the Major Field courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.

MAJOR FIELD

CHEM-101A General Chemistry 5
CHEM-101B General Chemistry 5
CHEM-112A Organic Chemistry 5
CHEM-112B Organic Chemistry 5
MATH-101A Calculus with Analytic Geometry 5
MATH-101B Calculus with Analytic Geometry 5
MATH-101C Calculus with Analytic Geometry 5
PHYS-140 Mechanics 4
PHYS-141 Electricity and Magnetism 4
PHYS-142 Optics, Heat, and Modern Physics 4

RECOMMENDED COURSES

The following courses are recommended because they are required in the lower division of some baccalaureate-granting universities:

MATH-103 Introduction to Linear Algebra (3)
MATH-104 Differential Equations (5)

COMPUTER ENGINEERING
AS Degree: Transfer Major

The Associate of Science Degree in Computer Engineering offered by Ohlone College is designed to prepare students for pursuing studies at the university level in computer science and engineering. The core courses in CS, ENGI, Math and Physics required in this A.S. Degree will fulfill the lower division major requirements at many universities. Students are advised however to meet with their counselor to assess the course requirements for specific universities. This program will enable students to develop a strong foundation in the computer and engineering sciences as well as a thorough training in applying their mathematical skills. In addition, students completing this program will acquire valuable cognitive skills (logic and common sense, reasoning and problem-solving skills) and practical laboratory skills. The theoretical and practical knowledge acquired through this program will enhance their success with obtaining entry-level jobs that require two years of college-level computer engineering and math.

Requirements for AS Degree:

a) Complete the Major Field courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.
f) Complete two or more Computer Science courses plus ENGI-101 and ENGI-130 at Ohlone College.

MAJOR FIELD

CS-102 Introduction to Computer Programming Using C++ 4
CS-113 Discrete Mathematics 3
CS-116 C++ Programming: An Object-Oriented Language OR 4
CS-118 Introduction to Assembly Language Programming (4)
ENGI-101 Introduction to Engineering 3
ENGI-130 Electric Circuit Analysis 4
MATH-101A Calculus with Analytic Geometry 5
MATH-101B Calculus with Analytic Geometry 5
MATH-101C Calculus with Analytic Geometry 5
MATH-103 Introduction to Linear Algebra 3
MATH-104 Differential Equations 5
PHYS-140 Mechanics 4
PHYS-141 Electricity and Magnetism 4
PHYS-142 Optics, Heat, and Modern Physics 4

RECOMMENDED COURSES

To study computer engineering, students must be familiar with computers and computer applications. To study calculus students must have skills in algebra. The following courses are recommended:

CS-101 Introduction to Computers and Information Technology (3)
CS-101L Computer Applications (2)
MATH-188 Pre-Calculus

Some colleges and universities require additional courses such as:

CHEM-101A General Chemistry (5)
ENGL-101B Reading and Composition (Introduction to Literature) (4)
ENGL-115 Engineering Communication (4)
ENGI-140 Materials Engineering (4)
SPCH-101 Introduction to Public Speaking (3)
COMPUTER SCIENCE

AS Degree: Transfer Major

The Associate of Science Degree in Computer Science offered by Ohlone College is designed to prepare students for pursuing studies at the university level in computer science and engineering. The core courses in Computer Science, Math, and Physics required for this AS Degree will fulfill the lower division major requirements at many universities. This program will enable students to develop a strong foundation in computer and engineering sciences as well as a thorough training in applying their mathematical skills. In addition, students completing this program will acquire valuable cognitive skills (logic and common sense, reasoning and problem-solving skills) and practical laboratory skills. The theoretical and practical knowledge acquired through this program will enhance students’ success with obtaining entry-level jobs that require two years of college-level computer science and math.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s AS degree program in Computer Science meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

Requirements for AS Degree:

a) Complete the Major Field courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.
f) Complete at least three or more Computer Science courses at Ohlone College.

MAJOR FIELD

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<tr>
<td>CS-113</td>
<td>Discrete Mathematics for Computers</td>
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</tr>
<tr>
<td>CS-116</td>
<td>C++ Programming: An Object-Oriented Language</td>
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<tr>
<td>CS-118</td>
<td>Introduction to Assembly Language Programming</td>
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<td>CS-124</td>
<td>Advanced Programming with Data Structures</td>
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<td>Any Computer Science course not listed above</td>
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</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-103</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics AND</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism OR</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry AND</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-101B</td>
<td>General Chemistry</td>
<td>(5)</td>
</tr>
</tbody>
</table>

| Total Units | 42-46 |

RECOMMENDED COURSES

To study programming, students must be familiar with computers and computer applications. To study calculus, students must have skills in algebra. The following courses are recommended:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>(3)</td>
</tr>
<tr>
<td>CS-101L</td>
<td>Computer Applications</td>
<td>(2)</td>
</tr>
<tr>
<td>MATH-188</td>
<td>Pre-Calculus</td>
<td>(5)</td>
</tr>
</tbody>
</table>

(continued on next column)

RECOMMENDED CORE COURSES

The following courses are recommended because they are required in the lower division of some baccalaureate-granting universities. MATH-101C is a prerequisite for PHYS-141.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>(5)</td>
</tr>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>(5)</td>
</tr>
<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
<td>(4)</td>
</tr>
</tbody>
</table>

RECOMMENDED CS ELECTIVES

Computer Science is a very diverse field. Ohlone offers many courses that enhance students’ knowledge as preparation for advanced studies. Please see the Ohlone College catalog for electives such as Visual Basic.NET Programming (CS-104A, CS-104B, CS-104C, CS-104D); Java (CS-170, CS-171, CS-172); Perl (CS-176); PL/SQL (CS-137); Applied Programming in Visual C++ (CS-121); XML (CS-178); TCP/IP and Internetworking (CS-157); Data Communications (Network+) (CS-152); UNIX Shell Programming (CS-147).

ENGINEERING

AS Degree: Transfer Major

The Associate of Science Transfer Degree in Engineering offered by Ohlone College is designed to prepare students for studying Engineering at most universities. The core courses required in the AS Degree in Engineering will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in engineering, physics, and mathematics. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs that require two years of college-level science and math.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s AS degree program in Engineering meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

Requirements for AS Degree:

a) Complete the Major Field courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.
f) Complete ENGI-120, ENGI-130, and ENGI-140 at Ohlone College.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-116</td>
<td>C++ Programming: An Object-Oriented Language</td>
<td>4</td>
</tr>
<tr>
<td>ENGI-101</td>
<td>Introduction to Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

(Continued on next page)
Select two (2) of the following Engineering courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGI-120</td>
<td>Engineering Mechanics–Statics</td>
<td>(3)</td>
</tr>
<tr>
<td>ENGI-130</td>
<td>Electric Circuit Analysis</td>
<td>(4)</td>
</tr>
<tr>
<td>ENGI-140</td>
<td>Materials Engineering</td>
<td>(4)</td>
</tr>
</tbody>
</table>

46-47

RECOMMENDED COURSES

The following courses are recommended because they are required in the lower division of some baccalaureate-granting universities:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry</td>
<td>(5)</td>
</tr>
<tr>
<td>CHEM-101B</td>
<td>General Chemistry</td>
<td>(5)</td>
</tr>
<tr>
<td>ENGI-115</td>
<td>Engineering Communication</td>
<td>(4)</td>
</tr>
<tr>
<td>MATH-103</td>
<td>Introduction to Linear Algebra</td>
<td>(3)</td>
</tr>
</tbody>
</table>

ENGLISH

AA Degree: Transfer Major

The Associate Degree in English is designed to provide students with the skills necessary to think critically and write persuasively about literary works in poetry, fiction, and drama. Students can survey major writers in English or American literature, or explore their interest in specific forms such as the novel, poetry, or Shakespeare. The program emphasizes critical analysis and interpretation in all of its courses. The Associate Degree in English prepares students for upper division academic work in literature and for careers in fields requiring critical thinking and persuasive writing, such as teaching, journalism, business, and law.

Requirements for AA Degree:

a) Complete the Major Field, Supporting, and Elective courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-101A</td>
<td>Reading and Written Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENGL-101B</td>
<td>Reading and Composition (Introduction to Literature)</td>
<td>4</td>
</tr>
</tbody>
</table>

8

SUPPORTING COURSES

Select three courses from the courses listed below, for a total of nine units:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-105B</td>
<td>English Literature: From Romanticism to Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-112</td>
<td>Modern Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-113</td>
<td>Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-118</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-120A</td>
<td>Survey of American Literature: Beginning to 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-120B</td>
<td>Survey of American Literature: 1865 to Present</td>
<td>3</td>
</tr>
</tbody>
</table>

(Continued on next column)

ELECTIVES

Select any one of the following courses, for a total of three units:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-101C</td>
<td>Critical Thinking and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-104</td>
<td>The Short Story</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-105B</td>
<td>English Literature: From Romanticism to Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-106</td>
<td>Censorship and Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-107</td>
<td>Literature and Film</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-111A</td>
<td>Beginning Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-111B</td>
<td>Intermediate Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-113</td>
<td>Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-114</td>
<td>World Mythology</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/WS-115</td>
<td>Women in Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-117</td>
<td>Science Fiction and Fantasy</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-118</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-119</td>
<td>The Gothic Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-120A</td>
<td>Survey of American Literature: Beginning to 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-120B</td>
<td>Survey of American Literature: 1865 to Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-127</td>
<td>Autobiography: Writing Journals and Memoirs</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-129</td>
<td>Psychology and Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-130</td>
<td>American Stories: Multicultural Autobiography and Memoir</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-135</td>
<td>Emerging Voices: Literature Reflecting the Diversity of the U.S.</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses may not be double-counted to apply towards Supporting Courses and Electives requirements.

Total Required Units: 20

RECOMMENDED COURSE

One year of college-level foreign language, with a grade of C or better.
EXERCISE SCIENCE
OPTION IN ATHLETIC TRAINING

AS Degree: Transfer Major

The Associate of Science Degree in Exercise Science with an Option in Athletic Training offered by Ohlone College is designed to prepare students for studying Athletic Training at accredited universities. While the courses required in the Associate of Science Degree in Exercise Science with an option in Athletic Training will fulfill the lower division major requirements at many universities, students are advised to meet with their counselor to assess the course requirements for specific institutions. This program will enable students to develop a strong foundation in exercise science and athletic training. The theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs in the fitness and physical therapy industry.

Requirements for AS Degree:

a) Complete the Major Field courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-103A</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-103B</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-130</td>
<td>Introduction to Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-106A</td>
<td>Principles of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CFS-109</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HLTH-101</td>
<td>Health Science</td>
<td>3</td>
</tr>
<tr>
<td>PE-240</td>
<td>Theory of Physical Education, Fitness, and Sport</td>
<td>3</td>
</tr>
<tr>
<td>PE-257</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>4</td>
</tr>
<tr>
<td>PE-258</td>
<td>Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>PE-381</td>
<td>Clinical Experiences in Sports Medicine I</td>
<td>1</td>
</tr>
<tr>
<td>PE-382</td>
<td>Clinical Experiences in Sports Medicine II</td>
<td>2</td>
</tr>
</tbody>
</table>

GEOLOGY

AS Degree: Transfer Major

The Associate of Science Transfer Degree in Geology offered by Ohlone College is designed to prepare students for studying Geology at most universities. The core courses required in the AS Degree in Geology will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in geology, physics, chemistry, and mathematics. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs that require two years of college-level science and math.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s AS degree program in Geology meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the General Education plan that best prepares them for future transfer.

Requirements for AS Degree:

a) Complete the Major Field courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.
f) Complete GEOL-101, GEOL-102/102L, and GEOL-103/103L at Ohlone College.

g) Select one of the following course combinations: 4
   - GEOL-102 Introduction to Oceanography
   - GEOL-102L Oceanography Laboratory
   - GEOL-103 Paleontology and Dinosaurs
   - GEOL-103L Paleontology Laboratory
   OR
   - PHYS-141 Electricity and Magnetism
   - PHYS-142 Optics, Heat, and Modern Physics

h) Select one of the following Physics courses: 4
   - PHYS-141 Electricity and Magnetism
   - PHYS-142 Optics, Heat, and Modern Physics

RECOMMENDED COURSES

The following courses are recommended because they are required in the lower division of some baccalaureate-granting universities:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-101A</td>
<td>Principles of Biology–Molecular and Cellular</td>
<td>5</td>
</tr>
<tr>
<td>BIOL-101B</td>
<td>Principles of Biology–Organisms and Systems</td>
<td>5</td>
</tr>
<tr>
<td>MATH-103</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
<tr>
<td>MATH-159</td>
<td>Elements of Statistics and Probability</td>
<td>5</td>
</tr>
</tbody>
</table>
The Associate of Science Transfer Degree in Mathematics offered by Ohlone College is designed to prepare students for studying Mathematics at most universities. The core courses required in the AS Degree in Mathematics will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in mathematics, physics, and computer studies. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs that require two years of college-level math and science.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s AS degree program in Mathematics meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

### Requirements for AS Degree:

a) Complete the Major Field courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.
f) Complete MATH-101B, MATH-101C, MATH-103, and MATH-104 at Ohlone College.

#### MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-103</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two of the following courses: 6-10

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>ENGI-120</td>
<td>Engineering Mechanics-Statics</td>
<td>3</td>
</tr>
<tr>
<td>MATH-159</td>
<td>Elements of Statistics and Probability</td>
<td>5</td>
</tr>
<tr>
<td>MATH-163</td>
<td>Discrete Mathematics for Computers</td>
<td>3</td>
</tr>
<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following courses: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-104A</td>
<td>Visual Basic.NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-104B</td>
<td>Advanced Visual Basic.NET Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

### RECOMMENDED COURSES

The following courses are recommended because they are required in the lower division of some baccalaureate-granting universities:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGI-130</td>
<td>Electric Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ENGI-140</td>
<td>Materials Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH-111</td>
<td>Introduction to Matlab</td>
<td>4.5</td>
</tr>
</tbody>
</table>

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### MUSIC

The Associate Degree in Music offered by Ohlone College is designed to prepare students for studying Music at most universities. While the Core courses required in the Associate of Arts Degree in Music will fulfill the lower division major requirements at most universities, students are advised to meet with their counselor to assess the course requirements for specific universities. This program will enable students to develop a strong foundation in music.

#### Requirements for AS Degree:

a) Complete the Major Field and Emphasis courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

#### MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-110A</td>
<td>Music Theory and Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110B</td>
<td>Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110C</td>
<td>Advanced Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110D</td>
<td>Advanced Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-111A</td>
<td>Musicianship</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111B</td>
<td>Musicianship</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111C</td>
<td>Advanced Musicianship</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111D</td>
<td>Advanced Musicianship</td>
<td>1</td>
</tr>
<tr>
<td>MUS-160A</td>
<td>Beginning Class Piano</td>
<td>1</td>
</tr>
<tr>
<td>MUS-160B</td>
<td>Class Piano</td>
<td>1</td>
</tr>
<tr>
<td>MUS-160C</td>
<td>Class Piano</td>
<td>1</td>
</tr>
<tr>
<td>MUS-160D</td>
<td>Class Piano</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following courses: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-101</td>
<td>Introduction to Music-Western Classical Music OR</td>
<td>3</td>
</tr>
<tr>
<td>MUS-102</td>
<td>Music Appreciation OR</td>
<td>3</td>
</tr>
<tr>
<td>MUS-104</td>
<td>Music of World Cultures OR</td>
<td>3</td>
</tr>
<tr>
<td>MUS-120A</td>
<td>History of Trends in Music Literature OR</td>
<td>3</td>
</tr>
<tr>
<td>MUS-120B</td>
<td>History of Trends in Music Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

#### EMPHASIS COURSES: Complete one of the following tracks 6-8

**Vocal Track**

Complete 6-8 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-162A</td>
<td>Class Voice</td>
<td>4</td>
</tr>
<tr>
<td>MUS-166A-B</td>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>MUS-355, 356, 358, 367, 368, 394</td>
<td>Choral Ensembles</td>
<td>2</td>
</tr>
</tbody>
</table>

**Instrumental Track**

Complete 6 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-163A-D</td>
<td>Woodwind Instruments</td>
<td>4</td>
</tr>
<tr>
<td>MUS-164A-D</td>
<td>Brass Instruments</td>
<td>4</td>
</tr>
<tr>
<td>MUS-165A-D</td>
<td>Percussion Instruments</td>
<td>4</td>
</tr>
<tr>
<td>MUS-166A-B</td>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>MUS-350, 352, 370, 371, 374</td>
<td>Instrumental Performing Group</td>
<td>1-3</td>
</tr>
</tbody>
</table>

(continued on next page)
PHYSICS

AS Degree: Transfer Major

The Associate of Science Transfer Degree in Physics offered by Ohlone College is designed to prepare students for studying Physics at most universities. The core courses required in the AS Degree in Physics will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in physics and mathematics. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs that require two years of college-level science and math.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s AS degree program in Physics meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

Requirements for AS Degree:

a) Complete the Major Field courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.
f) Complete PHYS-140, PHYS-141, and PHYS-142 at Ohlone College.

MAJOR FIELD

CHEM-101A  General Chemistry  5
CHEM-101B  General Chemistry  5
MATH-101A  Calculus with Analytical Geometry  5
MATH-101B  Calculus with Analytical Geometry  5
MATH-101C  Calculus with Analytical Geometry  5
MATH-103  Introduction to Linear Algebra  3
MATH-104  Differential Equations  5
PHYS-140  Mechanics  4
PHYS-141  Electricity and Magnetism  4
PHYS-142  Optics, Heat, and Modern Physics  4

Total Required Units: 45

RECOMMENDED COURSES

The following course is recommended because it is required in the lower division of some baccalaureate-granting universities:

MATH-159  Elements of Statistics and Probability (5)

SPEECH AND COMMUNICATION STUDIES

AA Degree: Transfer Major

The Associate Degree in Speech and Communication Studies is designed to provide students with fundamental understanding of the principles of speech communication as well as experience in the application of these principles. Classes prepare students for transfer to four-year institutions and entry into careers in which effective communication skills are important, such as teaching, public relations, and law. This program fulfills typical lower-division requirements at four-year institutions. Some variation in requirements may exist at a particular four-year college or university; therefore, it is essential that students also refer to the catalog of the prospective transfer institution and consult a counselor.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.

MAJOR FIELD

SPCH-101  Introduction to Public Speaking  3
SPCH-102  Critical Thinking/Group Decision Making OR  3
SPCH-104  Critical Thinking/Persuasion OR  (3)
SPCH-106  Critical Thinking/Argumentation and Debate  (3)
SPCH-103  Interpersonal Communication  3
SPCH-105  Intercultural Communication  3
SPCH-110A1 - A3*  Forensics Workshop AND/OR  1-6
SPCH-112A1 - A3*  Argumentation and Debate Workshop  1-6
SPCH-132  Voice and Diction  3

Total Required Units: 17-27

*SPECIAL REQUIREMENTS:
SPCH-110A or SPCH-112A should be taken for a minimum of two units and a maximum of 12 units.

SUPPORTING COURSES

Select a minimum of three units from the courses listed below:

BRDC-141  Live TV Newscast
JOUR-155  Mass Media and Society
PSY-101  General Psychology
SOC-101  Introduction to Sociology
SPCH-115  Career Communication
SPCH-122  Family Communication
SPCH-130  Oral Interpretation of Literature
TD-110  Introduction to Acting

Recommended for transfer: MATH-159, Elements of Statistics and Probability
ASSOCIATE DEGREES
AND
CERTIFICATES OF ACHIEVEMENT

Ohlone offers associate degrees in occupational majors for students interested in preparing for employment in certain fields. These programs are not designed as transfer programs, although a student who completes one of these degrees would not be prohibited from transferring. These associate degrees combine the focus of an occupational major with the breadth of general education. Certificates of Achievement do not include the breadth of general education but allow a student to focus primarily on their chosen occupational program. Associate degrees require a minimum of 60 units whereas Certificates of Achievement range between 18-46 units.

ACCOUNTING
AA Degree
and
Certificate of Achievement Program

This curriculum is designed to prepare students for entry level positions in business, industry, or government. Graduates often start as a beginning level accountant in a small business or enter a specialty field in industry. Such opportunities include working in payroll, accounts receivable/payable, and general ledger. The qualified individual often advances rapidly to a professional accounting position, particularly in the small business.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-101A</td>
<td>Principles of Accounting</td>
<td>5</td>
</tr>
<tr>
<td>BA-101B</td>
<td>Principles of Accounting</td>
<td>5</td>
</tr>
<tr>
<td>BA-104</td>
<td>Computer Applications in Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BA-105</td>
<td>Income Tax Principles</td>
<td>4</td>
</tr>
<tr>
<td>BA-107</td>
<td>Cost and Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA-123</td>
<td>Math for Accounting and Business</td>
<td>3</td>
</tr>
</tbody>
</table>

(continued on next column)

SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-102A</td>
<td>Principles of Economics-Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BA-116</td>
<td>Business English and Communication</td>
<td>4</td>
</tr>
<tr>
<td>BA-125</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BA/PSY-139</td>
<td>Psychology in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>BA-141A</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BA-166</td>
<td>Business Ethics OR</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-106</td>
<td>Ethics</td>
<td>(3)</td>
</tr>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-101L</td>
<td>Computer Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

 ADMINISTRATION OF JUSTICE

AA Degree
and
Certificate of Achievement Program

This curriculum is designed to prepare students for employment in entry level and advanced positions in the public and private sectors. The program prepares students for positions such as police officer, deputy sheriff, state or federal patrol and investigative officer, correctional aide, security specialist, community service officer, police cadet, and reserve officer, as well as manager and supervisor in these individual fields. Placement may depend on job availability and the successful completion of an entrance examination.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ-101</td>
<td>Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>AJ-102</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>AJ-104</td>
<td>Criminal Evidence</td>
<td>3</td>
</tr>
<tr>
<td>AJ-106</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>AJ-117</td>
<td>Police and Society</td>
<td>3</td>
</tr>
<tr>
<td>AJ-118</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>Major Field Electives</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

(continued on next page)

Major Field Electives (choose a minimum of 8 units for Certificate of Achievement):


(continued on next page)
SUPPORTING COURSES:

Major Field Electives (choose an additional 8 units for associate degree):

114 (3), SOC-101 (3), SOC-102 (3), SOC-105 (3), WEX 195 (1-4)

It is recommended that students select additional courses from among the Major
Field Electives in order to broaden their preparation or to direct their program
toward such specializations as law enforcement, corrections, investigation, or
security. Counselor or instructor assistance in appropriate course selection is
advised. Computer literacy and Spanish language capability recommended.

ADMINISTRATIVE ASSISTANT

AA Degree

and

Certificate of Achievement Program

This curriculum is designed to prepare students for employment in business,
industry, or government. Graduates often begin as an administrative assistant and
later advance to executive secretary and administrative assistant. Placement is
dependent upon job availability as well as the successful completion of general
entrance examinations.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified
   in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field and Supporting Courses.

MAJOR FIELD

BA-106 Applied Accounting 3
BA-116 Business English and Communication 4
BA-125 Introduction to Business 3
BA-141A Business Law 3
CAOT-104 Basic Keyboarding 1
CAOT-194A MS Office Advanced 2
CS-101L Computer Applications 2

SUPPORTING COURSES

BA-123 Math for Accounting and Business 3
BA/PSY-139 Psychology in the Workplace 3
CAOT-153 Introduction to Internet 1
CAOT-156 Microsoft Publisher .5
CAOT-188 Desktop Publishing with QuarkXpress 2
SPCH-101 Introduction to Public Speaking 3
Major Field Elective 3

15.5

Recommended Major Field Electives: BSM-101, BSM-102, BSM-103, BSM-106,
AMERICAN SIGN LANGUAGE
AND DEAF STUDIES

AA Degree
and
Certificate of Achievement Program

This curriculum is designed to prepare students for paraprofessional positions in areas of deaf education (instructional aides, dorm counselors, etc.), research, human services, or community services. This program will also help students with other majors and with their personal and/or professional contacts with Deaf persons.

Requirements for AA Degree:

a) Complete Major Field, Major Field Electives, and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field and Major Field Electives.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field and Major Field Electives.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL-101A</td>
<td>Principles of American Sign Language I</td>
<td>5</td>
</tr>
<tr>
<td>ASL-102A</td>
<td>Principles of American Sign Language II</td>
<td>5</td>
</tr>
<tr>
<td>ASL-103A</td>
<td>Principles of American Sign Language III</td>
<td>5</td>
</tr>
<tr>
<td>ASL-104A</td>
<td>Principles of American Sign Language IV</td>
<td>5</td>
</tr>
<tr>
<td>ASL-140</td>
<td>Deaf Education</td>
<td>3</td>
</tr>
<tr>
<td>ASL-142</td>
<td>Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>ASL-152</td>
<td>Advanced Fingerspelling</td>
<td>1</td>
</tr>
<tr>
<td>ASL-154</td>
<td>American Sign Language Vocabulary</td>
<td>2</td>
</tr>
<tr>
<td>ASL-156</td>
<td>Advanced Reception of ASL</td>
<td>3</td>
</tr>
<tr>
<td>ASL-160-161</td>
<td>American Sign Language Field Work</td>
<td>1-2</td>
</tr>
</tbody>
</table>

33-34

MAJOR FIELD ELECTIVES

Complete at least 3 of the following courses for 9 units:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL-145</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>ASL-150</td>
<td>Linguistics of ASL</td>
<td>3</td>
</tr>
<tr>
<td>ASL-155</td>
<td>ASL Literature (Folklore)</td>
<td>3</td>
</tr>
<tr>
<td>ASL-157</td>
<td>ASL Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>ASL-158</td>
<td>Classifiers in ASL</td>
<td>3</td>
</tr>
</tbody>
</table>

9

SUPPORTING COURSES

These supporting classes are approved California State Education Requirements for the California School for the Deaf.

Complete a minimum of 3 semester units in at least 3 different areas from those listed below:

**Child Growth and Development**
Select three units from:

**Education Techniques**
Select three units from:
ECS-309, ECS-310, ECS-311, ECS-312, ECS-313, ECS-314, ECS-316, ECS-328, PD/PSY-114

**English Composition or Report Writing**
Select three units from:
ENGL-101A, ENGL-101B, ENGL-101C, ENGL-151A, ENGL-151B

**Health, Science, and Hygiene**
Select three units from:

**Psychology, Sociology, Behavioral Sciences, Handicapping Conditions, Family Life, Social Work, or Rehabilitation**
Select three units from:
ECS-324, PSY-101, PSY-102, PSY-110, PSY-112, PSY-139, SOC-101

**Recreational Planning and/or Physical Education Methodology for Children**
Select three units from:
PE-255, PE-258, PE-262, PE-264, PE-265, PE-266, PE-267, PE-268, PE-381, PE-382
BROADCASTING

AA Degree
and
Certificate of Achievement Program

This curriculum is designed to prepare students as broadcasters for careers in the radio industry and related fields (television, advertising, journalism). Students are encouraged to develop a wide variety of skills in order to be better prepared for a wide range of vocational opportunities. Placement often depends on audition tape; portfolio of scripts; willingness to relocate anywhere in the country; talent; job availability; and a thorough job search.

Requirements for AA Degree:

a) Complete Major Field and Supporting Course with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field Courses.

MAJOR FIELD

BRDC-120 Introduction to Electronic Media 2
BRDC-123A Radio Operations I 3
BRDC-123B Radio Operations II 3
BRDC-128 Radio Programming and Marketing 2
BRDC-130 Broadcast Announcing 3
BRDC-141 Live TV Newscast 3
BRDC-142 Live TV Studio Production 3
BRDC-148 Directing Live Television 3
JOUR-101A Newswriting 3
JOUR/BRDC-155 Mass Media and Society 3

SUPPORTING COURSE

SPCH-101 Introduction to Public Speaking 3

BUSINESS SUPERVISION/MANAGEMENT

AA Degree
and
Certificate of Achievement Program

This curriculum is designed to prepare students for entry level positions in supervision/management and to prepare current leads, first line supervisors, and middle managers for promotion to higher-level positions in business, industry, and/or government. Students are trained for both line (operation) and staff (direct support) positions. Placement is often dependent upon job availability and the successful completion of an entrance examination.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

BSM-101 Fundamentals of Supervision 3
BSM-102 Interpersonal Relations in the Workplace 3
BSM-103 Management of Human Resources 3
BSM-105 Operations Management 3
BSM-106 Communication for Supervisors 3
BSM-108 Leadership in Organizations 3

SUPPORTING COURSES

BA-116 Business English and Communication 4
BA-125 Introduction to Business 3
BA-141A Business Law 3
BA-166 Business Ethics OR 3
PHIL-106 Ethics 3
CS-101 Introduction to Computers and Information Technology 3

Photo courtesy of Julie Houle.
CISCO CERTIFIED NETWORK PROFESSIONAL
(NETWORK+, CCNA, CCNP)
COMPUTERS, NETWORKS,
AND EMERGING TECHNOLOGY

AS Degree
and
Certificate of Achievement Program

The Cisco Certified Network Professional (CCNP) certificate is designed for professionals who work with traditional Cisco technology-based networks in which LAN and WAN routers and LAN switches predominate. This includes network design, configuration, and installation. Configuration techniques increase bandwidth, improve response times, enhance reliability and quality of service (QoS), maximize performance, and improve network security.

Requirements for AS Degree:
a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:
a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-152</td>
<td>Data Communications (Network+)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>LAN Network Design</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Router Configuration and Routing</td>
<td>4</td>
</tr>
<tr>
<td>CNET-156A</td>
<td>Routing and Switching</td>
<td>2</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>WAN Design and Support</td>
<td>2</td>
</tr>
<tr>
<td>CNET-157</td>
<td>TCP/IP and Internetworking</td>
<td>3</td>
</tr>
<tr>
<td>CNET-182</td>
<td>Advanced Routing</td>
<td>3</td>
</tr>
<tr>
<td>CNET-183</td>
<td>Remote Access Networks</td>
<td>3</td>
</tr>
<tr>
<td>CNET-184</td>
<td>Advanced Switching</td>
<td>3</td>
</tr>
<tr>
<td>CNET-185</td>
<td>Internetwork Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td></td>
</tr>
</tbody>
</table>

SUPPORTING COURSES (Minimum six units required)

Choose 1-4 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-195A</td>
<td>Internship</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Choose 2-5 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-101</td>
<td>Introduction to Computers and Information Technology</td>
<td></td>
</tr>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
<td></td>
</tr>
<tr>
<td>CNET-140A</td>
<td>Linux Installation and Configuration</td>
<td></td>
</tr>
<tr>
<td>CNET-140B</td>
<td>Linux System Administration</td>
<td></td>
</tr>
<tr>
<td>CNET-142A</td>
<td>Linux Networking</td>
<td></td>
</tr>
<tr>
<td>CNET-142B</td>
<td>Linux Security</td>
<td></td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td></td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX Shell Programming</td>
<td></td>
</tr>
</tbody>
</table>

COMPUTER STUDIES

AA Degree
and
Certificate of Achievement Program

Requirements for AA Degree:
a) Complete Major Field courses from one of the two options indicated below with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:
a) Complete one of the Major Field options as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

Students must complete all courses in one of the following two options listed below:

Option 1 – Computer Programming (Software Development)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-102*</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-113/MATH-163*</td>
<td>Discrete Mathematics for Computers</td>
<td>3</td>
</tr>
<tr>
<td>CS-116*</td>
<td>C++ Programming: An Object-Oriented Language</td>
<td>4</td>
</tr>
<tr>
<td>CS-118*</td>
<td>Introduction to Assembly Language Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-124*</td>
<td>Advanced Programming with Data Structures OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
<td></td>
</tr>
<tr>
<td>CS-175</td>
<td>Script Technology for Web Development</td>
<td></td>
</tr>
<tr>
<td>CS-176</td>
<td>CGI Programming with PERL for Web Development</td>
<td></td>
</tr>
</tbody>
</table>

Major Field Electives: 3

(continued on next page)
Recommended Major Field Electives: CNET-160A, CS-121, CS-146. (Courses may not be taken for duplicate credit.) *Note: These major field courses and other supporting courses are usually required by most four-year colleges and universities for the computer science major. Consult the specific college's catalog for details.

Option 2 – Computer Programming (Internet/Web Programming)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-104A</td>
<td>Visual Basic.NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-104B</td>
<td>Advanced Visual Basic.NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-113/MATH-163</td>
<td>Discrete Mathematics for Computers OR</td>
<td>3</td>
</tr>
<tr>
<td>MATH-156</td>
<td>Math for Liberal Arts OR</td>
<td>(3)</td>
</tr>
<tr>
<td>MATH-166</td>
<td>Finite Mathematics</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-149</td>
<td>PERL Programming OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-176</td>
<td>CGI Programming with PERL for Web Development</td>
<td>(3)</td>
</tr>
<tr>
<td>CS-152</td>
<td>Data Communications (Network+)</td>
<td>2</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-171</td>
<td>Advanced Java Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-175</td>
<td>Script Technology for Web Development</td>
<td>4</td>
</tr>
<tr>
<td>Major Field Electives</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Major Field Electives: CNET-160A, CS-102, CS-146, CS-149, CS-175, CS-176, CS-177. (Courses may not be taken for duplicate credit.)

Requirements for AS Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
<td>4</td>
</tr>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-152</td>
<td>Data Communications (Network+)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-158</td>
<td>Wireless Networks</td>
<td>4</td>
</tr>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-161A</td>
<td>Supporting Users on XP</td>
<td>2</td>
</tr>
<tr>
<td>CNET-161B</td>
<td>Supporting Applications on XP</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162A</td>
<td>Microsoft Server Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td>(3)</td>
</tr>
</tbody>
</table>

SUPPORTING COURSES (Minimum six units required)

Choose 1-4 units from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-195A</td>
<td>Internship</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Choose 2-5 units from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>CNET-140A</td>
<td>Linux Installation and Configuration</td>
<td></td>
</tr>
<tr>
<td>CNET-140B</td>
<td>Linux System Administration</td>
<td></td>
</tr>
<tr>
<td>CNET-142A</td>
<td>Linux Networking</td>
<td></td>
</tr>
<tr>
<td>CNET-142B</td>
<td>Linux Security</td>
<td></td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td></td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX Shell Programming</td>
<td></td>
</tr>
<tr>
<td>CNET-149</td>
<td>PERL Programming</td>
<td></td>
</tr>
<tr>
<td>CNET-155A</td>
<td>LAN Network Design</td>
<td></td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Router Configuration and Routing</td>
<td></td>
</tr>
<tr>
<td>CNET-156A</td>
<td>Routing and Switching</td>
<td></td>
</tr>
<tr>
<td>CNET-156B</td>
<td>WAN Design and Support</td>
<td></td>
</tr>
<tr>
<td>CNET-162A</td>
<td>Windows Network Infrastructure Administration</td>
<td></td>
</tr>
<tr>
<td>CNET-164A</td>
<td>Microsoft Directory Services</td>
<td></td>
</tr>
<tr>
<td>CNET-164B</td>
<td>Designing Microsoft Windows Directory Services</td>
<td></td>
</tr>
<tr>
<td>CNET-165A</td>
<td>Designing a Secure Microsoft Windows Network</td>
<td></td>
</tr>
<tr>
<td>CNET-165B</td>
<td>Microsoft Internet Security and Acceleration Server (ISA)</td>
<td></td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Network Application Administration i-Email (Exchange)</td>
<td></td>
</tr>
<tr>
<td>CNET-168A</td>
<td>Network Application Administration II-Database (SQL)</td>
<td></td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security</td>
<td></td>
</tr>
<tr>
<td>CNET-182</td>
<td>Advanced Routing</td>
<td></td>
</tr>
<tr>
<td>CNET-183</td>
<td>Remote Access Networks</td>
<td></td>
</tr>
<tr>
<td>CNET-184</td>
<td>Advanced Switching</td>
<td></td>
</tr>
<tr>
<td>CNET-185</td>
<td>Internetwork Troubleshooting</td>
<td></td>
</tr>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td></td>
</tr>
<tr>
<td>CS-104A</td>
<td>Visual Basic.NET Programming</td>
<td></td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
<td></td>
</tr>
<tr>
<td>CS-175</td>
<td>Script Technology for Web Development</td>
<td></td>
</tr>
<tr>
<td>CS-176</td>
<td>CGI Programming with PERL for Web Development</td>
<td></td>
</tr>
</tbody>
</table>

DESKTOP SUPPORT TECHNICIAN
(A+, NETWORK+, MCP)
COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY

AS Degree
and
Certificate of Achievement Program

PC Technicians install, fix, repair, and upgrade personal computers. In contrast to Technical Support Specialists, who often support computer software applications, PC Technicians tend to focus on computer hardware. Software is used, but typically only at the operating system level in order to diagnose problems or correctly configure a system.

Requirements for AS Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete at least six units at Ohlone College.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

(continued on next column)
The Early Childhood Studies Program at Ohlone College prepares students for employment in child development programs including preschools, children’s centers, family childcare centers, school age programs, and infant and toddler programs. The Ohlone College program meets or exceeds the requirements for teachers in centers and programs licensed in the State of California by the Department of Social Services. The program also meets the requirements for the Child Development Permit issued by the California Commission on Teacher Credentialing. All Early Childhood Studies majors should plan to follow the suggested flow of courses, beginning with ECS-300. Options in a particular area of child development involve the completion of an additional six to nine units in courses specific to that area.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS-300</td>
<td>Introduction to Early Childhood Studies</td>
<td>4</td>
</tr>
<tr>
<td>ECS-301</td>
<td>Early Childhood Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>ECS-302</td>
<td>Introduction to Early Childhood Curriculum</td>
<td>4</td>
</tr>
<tr>
<td>ECS-303</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>ECS-304</td>
<td>Observation and Assessment of Young Children</td>
<td>4</td>
</tr>
<tr>
<td>ECS-305</td>
<td>Health and Safety Practices in Programs for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-306</td>
<td>Guidance and Discipline of Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-307A-C</td>
<td>Practicum Working with Young Children</td>
<td>3-5</td>
</tr>
</tbody>
</table>

(continued on next column)
ENTERTAINMENT DESIGN AND TECHNOLOGY

AA Degree and Certificates of Achievement Program

This curriculum is designed to prepare students for the various fields of the Entertainment Design and Technology industry. Special competency areas can be directed toward lighting, audio, live event management, scenery, or costumes. The program offers Certificates of Achievement for students intending to go directly into the workplace, as well as for entertainment industry professionals desiring to enhance their skills.

Requirements for AA Degree:

a) Complete Major Field courses and one of the six Options with a 2.0 grade point average.

b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.

c) Complete at least 60 degree-applicable units with a 2.0 grade point average.

d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses and one of the six Options as indicated below.

b) Maintain a 2.0 grade point average in Major Field courses and one of the six option areas.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-104A</td>
<td>2D Design OR</td>
<td>3</td>
</tr>
<tr>
<td>ID-155A</td>
<td>Architectural Drafting for Interior Design</td>
<td>(3)</td>
</tr>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>TD-100</td>
<td>Survey of the Arts</td>
<td>3</td>
</tr>
<tr>
<td>TD-150</td>
<td>Technical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TD-152</td>
<td>Introduction to Lighting</td>
<td>3</td>
</tr>
<tr>
<td>TD-170</td>
<td>Survey of Entertainment Design</td>
<td>3</td>
</tr>
</tbody>
</table>

18

Option 1: Stage Craft

BRDC-142  Live TV Studio Production OR  3
TD-180    Television Series Production         (3)
CS-152    Data Communications                  2
CS-180    Network Operating Systems            4
TD-153    Scenic Painting                      3
TD-161 - 164 Stagecraft Lab (Theatre, Television, Dance) | 1-4
TD-171    3D Entertainment Design for Lighting | 3
TD-178    Fundamentals of Rigging              2
WEX-195   Internship                          1-3

Welding Competency***  19-24

*The welding competency requirement may be met by successful completion (with a grade of C or better) of a welding course at any accredited institution (such as Welding Technology at Chabot College or Mission Valley Regional Occupational Program) or by obtaining a Certificate of Completion from a certified professional program.

Option 2: Costuming

ART-106A  Descriptive Drawing                   3
BRDC-142  Live TV Studio Production OR          3
TD-180    Television Series Production          (3)
TD-154    Theatrical Makeup for Stage, TV, and Dance | 2
TD-155A   Costume Construction I                3
TD-155B   Costume Construction II               3
TD-156    Theatrical Costuming                   2
TD-161 - 164 Stagecraft Lab (Theatre, Television, Dance) | 1-4
WEX-195   Internship                          1-3

18-23

Option 3: Audio Technician

BRDC-132/MUS-113 Studio Recording             3
BRDC-142  Live TV Studio Production OR          3
TD-180    Television Series Production          (3)
CS-152    Data Communications                  2
MUS-112A  Recording with Pro Tools             3
TD-161 - 164 Stagecraft Lab (Theatre, Television, Dance) | 1-4
TD-175    Intermediate Sound for Stage, Television, and Live Events | 3
TD-176    Digital Sound Editing for Stage and TV | 3
WEX-195   Internship                          1-3

19-24

Option 4: Live Event Management

BA-109B   Computerized Accounting for Small Business | 1.5
BSM-101   Fundamentals of Supervision             3
BSM-102   Interpersonal Relations in the Workplace | 3
TD-119    Directing for the Stage                4
TD-159    Theatre Management                     3
TD-161 - 164 Stagecraft Lab (Theatre, Television, Dance) | 1-4
TD-179    Introduction to Stage Management       3
WEX-195   Internship                          1-3

19.5-24.5

Option 5: Theatrical and TV Lighting Technician

CS-152    Data Communications                  2
TD-161 - 164 Stagecraft Lab (Theatre, Television, Dance) | 1-4
TD-171    3D Entertainment Design for Lighting | 3
TD-172    Intermediate Lighting for Stage, Television, and Live Events | 3
TD-173    Introduction to Moving Lights        2
TD-178    Fundamentals of Rigging              2
TD-180    Television Series Production OR      3
BRDC-142  Live TV Studio Production            (3)
WEX-195   Internship                          1-3

17-22

Option 6: Moving Light Technician

CS-152    Data Communications                  2
TD-161 - 164 Stagecraft Lab (Theatre, Television, Dance) | 1-4
TD-171    3D Entertainment Design for Lighting | 3
TD-172    Intermediate Lighting for Stage, Television, and Live Events | 3
TD-173    Introduction to Moving Lights        2
TD-174    Intermediate Moving Lights           2
TD-178    Fundamentals of Rigging              2
WEX-195   Internship                          1-3

13-18
GRAPHIC ARTS/COMPUTER GRAPHICS

AA Degree

and

Certificate of Achievement Program

This curriculum is designed to prepare students as graphic artists for careers with graphic design printing companies and other media firms. Students are encouraged to develop a wide variety of skills in order to be better prepared for a range of job opportunities. Placement often depends upon the portfolio of completed work, willingness to move to a different area, and job availability.

Requirements for AA Degree:

a) Complete Major Field and Supporting Course with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in the Major Field Courses.

MAJOR FIELD

ART-103A Survey of World Art History-Prehistoric Through 1300 C.E. OR
ART-103B Survey of World Art History-14th Century Through 20th Century
ART-104A 2D Design
ART-104C Color
ART-106A Descriptive Drawing
ART-133A Black and White Photography OR
ART-134A Basic Color Photography OR
ART-139A Digital Photography
GA/ART-109A Beginning Graphic Design I
GA/ART-109B Beginning Graphic Design II
GA/ART-110A Advanced Graphic Design I
GA/ART-110B Advanced Graphic Design II
GA/ART/CS-160A Computer Graphics I
GA/ART/CAOT-161A Digital Graphics I

SUPPORTING COURSE

JOUR-146-148 Photography/Graphic Arts Newspaper Staff

INTERIOR DESIGN

AA Degree

and

Certificate of Achievement Program

This curriculum is designed to prepare creative students in the various fields of Interior Design. The job market is varied and offers positions such as Interiors Salespersons, Product Representatives, and Interior Design Services (self-employed or associated with small shops or consultants for large department stores and furniture outlets). Special competency areas can be directed toward textiles/fabrics, furniture and floor covering, remodeling and space design, corporate office space decorating, model homes, etc. This two-year program includes courses that will give graduates the professional skills needed to secure an entry-level job, as well as the option of continuing to study Interior Design at the university level.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field Courses.

MAJOR FIELD

ART-104B 3D Design
ART-104C Color
ART-106A Descriptive Drawing
ART-108 Perspective Drawing
ID/ART-150A Interior Design Concepts
ID/ART-150B Interior Design
ID/ART-151 Visualization and Presentation
ID/ART-153 History of Decorative Arts
ID/ART-154 Contemporary Home Design OR
ID/ART-155A Architectural Drafting for Interior Design
ID/ART-155B CAD for Interior Design
ID/ART-156 Architectural Modelmaking for Interior Design
ID/ART-157 Professional Practice for Interior Design
ID/ART-158 Textiles
ID/ART-159A Applied Design: Residential Lighting AND
ID/ART-159B Applied Design: Color for the Home

SUPPORTING COURSE

ART-103A Survey of World Art History-Prehistoric Through 1300 C.E. OR
ART-103B Survey of World Art History-14th Century Through 20th Century
INTERPRETER PREPARATION PROGRAM

AA Degree
and
Certificate of Achievement Program

The Interpreter Preparation Program (IPP) is limited in the number of students it can admit to each class. Students must fulfill minimum requirements listed below prior to applying to the Interpreter Preparation Program.

**MINIMUM REQUIREMENTS:**

1. All pre-interpreter students are required to take the placement test OR provide sufficient proof of college level English and Math coursework to waive this requirement:
   a. Completion of ENGL-101A or equivalent with a grade of C or better.
   b. Reading Clearance: Clearing ENGL-163 through the Ohlone College English Placement Test or completion of ENGL-163 or substitute reading course from an approved list.
   c. Completion of MATH-151 or any higher level Math course or Math clearance on the Ohlone Math Placement Test.
   d. Completion of 30 General Education Units (1 year of college-level work) with a cumulative GPA of 2.7 or higher.
   e. Completion of Deaf Culture and ASL Structure (ASL Linguistics) with a cumulative GPA of 2.7 or higher.

2. Students must attend an all day screening. All applications must be evaluated regardless of previous coursework in ASL.

3. A separate application, found online, must be submitted to the Division of Deaf Studies and Special Services by mid-April. The exact deadline is provided online at [http://www.ohlone.edu/instr/div_deaf/ipp/#eligibility](http://www.ohlone.edu/instr/div_deaf/ipp/#eligibility).

**Requirements for AA Degree:**

a) Complete Major Field courses with a grade of C or better.

b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.

c) Complete at least 60 degree-applicable units with a 2.0 grade point average.

d) Complete at least 12 units at Ohlone College.

**Requirements for Certificate of Achievement:**

a) Complete Major Field courses as indicated below.

b) Complete at least six units at Ohlone College.

c) Maintain a 2.0 grade point average in Major Field courses.

**MAJOR FIELD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT-106</td>
<td>ASL Discourse</td>
<td>3</td>
</tr>
<tr>
<td>INT-107</td>
<td>Interpreter Orientation</td>
<td>3</td>
</tr>
<tr>
<td>INT-110</td>
<td>ASL-English/English-ASL Translation</td>
<td>2</td>
</tr>
<tr>
<td>INT-112</td>
<td>Applied Linguistics for Interpreters</td>
<td>3</td>
</tr>
<tr>
<td>INT-115</td>
<td>Interpreting Preparation Skills</td>
<td>2</td>
</tr>
<tr>
<td>INT-120</td>
<td>Consecutive Interpreting: English/ASL</td>
<td>3</td>
</tr>
<tr>
<td>INT-121</td>
<td>Consecutive Interpreting: ASL/English</td>
<td>3</td>
</tr>
<tr>
<td>INT-145</td>
<td>Practicum: Deaf Mentorship</td>
<td>5</td>
</tr>
<tr>
<td>INT-160</td>
<td>Simultaneous Interpreting: English/ASL</td>
<td>3</td>
</tr>
<tr>
<td>INT-161</td>
<td>Simultaneous Interpreting: ASL/English</td>
<td>3</td>
</tr>
<tr>
<td>INT-173</td>
<td>Interpretation in Specialized Settings</td>
<td>3</td>
</tr>
<tr>
<td>INT-175</td>
<td>Specialized Interpreting Technique</td>
<td>2</td>
</tr>
<tr>
<td>INT-180</td>
<td>Ethics, Role, Responsibility</td>
<td>3</td>
</tr>
<tr>
<td>INT-181</td>
<td>Transliteration</td>
<td>3</td>
</tr>
<tr>
<td>INT-190</td>
<td>Interpreting Internship</td>
<td>5</td>
</tr>
</tbody>
</table>

(continued on next column)
MICROSOFT SYSTEMS ENGINEER
(NETWORK+, MCP, MCSE)
COMPUTERS, NETWORKS, AND
EMERGING TECHNOLOGY

AS Degree
and
Certificate of Achievement Program

For network professionals, Microsoft offers the Microsoft Certified Systems Engineer (MCSE) credential. MCSE's are qualified to effectively plan, implement, maintain, and support information systems in a wide range of computing environments using the Microsoft Windows Server Products and the Microsoft BackOffice®. Candidates for this degree option must have strong PC skills prior to enrolling in the program.

Requirements for AS Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td>CNET-157</td>
<td>TCP/IP and Internetworking</td>
<td>3</td>
</tr>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162A</td>
<td>Microsoft Server Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162B</td>
<td>Windows Network Infrastructure Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-164A</td>
<td>Microsoft Directory Services</td>
<td>2</td>
</tr>
<tr>
<td>CNET-164B</td>
<td>Designing Microsoft Windows Directory Services Infrastructure</td>
<td>2</td>
</tr>
<tr>
<td>CNET-165A</td>
<td>Designing a Secure Microsoft Windows Network</td>
<td>2</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td>(3)</td>
</tr>
</tbody>
</table>

(continued on next column)

SUPPORTING COURSES (Minimum six units required)

Choose 1-4 units from the following: 1-4

- CNET-195A1-4 Internship

Choose 2-5 units from the following: 2-5

- CNET-101 Introduction to Computers and Information Technology
- CNET-105 PC Hardware and Software
- CNET-140A Linux Installation and Configuration
- CNET-140B Linux System Administration
- CNET-142A Linux Networking
- CNET-142B Linux Security
- CNET-147 UNIX Shell Programming
- CNET-149 PERL Programming
- CNET-155A LAN Network Design
- CNET-155B Router Configuration and Routing
- CNET-156A Routing and Switching
- CNET-156B WAN Design and Support
- CNET-158 Wireless Networks
- CNET-165B Microsoft Internet Security and Acceleration Server (ISA)
- CNET-167A Network Application Administration I-Email (Exchange)
- CNET-168A Network Application Administration II-Database (SQL)
- CNET-170 Network Security
- CNET-182 Advanced Routing
- CNET-183 Remote Access Networks
- CNET-184 Advanced Switching
- CNET-185 Internetwork Troubleshooting
- CS-102 Introduction to Computer Programming Using C++
- CS-104A Visual Basic.NET Programming
- CS-170 Java Programming
- CS-175 Script Technology for Web Development
- CS-176 CGI Programming with PERL for Web Development

Photo courtesy of College Relations.
MULTIMEDIA
AA Degree
and
Certificate of Achievement Program

Upon completion of the AA degree or Certificate of Achievement in Multimedia, students will have developed interactive multimedia projects integrating graphics, text, sound, animation, and video for World Wide Web and CD-ROM. Jobs in the multimedia field include programmer, Web developer, producer, multimedia project manager, production assistant, writer, designer, graphic artist, and interface designer.

Jobs for multimedia professionals are mainly in the fields of education and training, sales and marketing, advertising and public relations, and entertainment. The pay for multimedia professionals is above average. Multimedia development is a growing field and employment for both contractors and full time employees will grow.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-139A</td>
<td>Digital Photography OR</td>
<td>2</td>
</tr>
<tr>
<td>GA-160A</td>
<td>Computer Graphics I OR</td>
<td>(4)</td>
</tr>
<tr>
<td>GA-161A</td>
<td>Digital Graphics I</td>
<td>(2)</td>
</tr>
<tr>
<td>MM-102A</td>
<td>Multimedia I</td>
<td>4</td>
</tr>
<tr>
<td>MM-102B</td>
<td>Multimedia II</td>
<td>4</td>
</tr>
<tr>
<td>MM-105</td>
<td>Web Site Design</td>
<td>4</td>
</tr>
<tr>
<td>MM-160</td>
<td>Multimedia Portfolio Development</td>
<td>3</td>
</tr>
<tr>
<td>MM-195A</td>
<td>Work Experience Education</td>
<td>1</td>
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</table>

18-20

SUPPORTING COURSES

Select ten units from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM-103A</td>
<td>Introduction to Flash: Animation</td>
<td>.5</td>
</tr>
<tr>
<td>MM-103B</td>
<td>Intermediate Flash: Interactivity</td>
<td>.5</td>
</tr>
<tr>
<td>MM-104</td>
<td>Advanced Interactivity in Flash</td>
<td>3</td>
</tr>
<tr>
<td>MM-107</td>
<td>Introduction to Dreamweaver</td>
<td>.5</td>
</tr>
<tr>
<td>MM-110</td>
<td>Digital Video</td>
<td>4</td>
</tr>
<tr>
<td>MM-111</td>
<td>Introduction to After Effects</td>
<td>.5</td>
</tr>
<tr>
<td>MM-115</td>
<td>3D Animation</td>
<td>3</td>
</tr>
<tr>
<td>MM-116</td>
<td>3D Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MM-117</td>
<td>Advanced 3D Modeling and Animation</td>
<td>3</td>
</tr>
<tr>
<td>MM-120</td>
<td>Designing an On-line Course</td>
<td>3</td>
</tr>
<tr>
<td>MUS-112A</td>
<td>Recording with Pro Tools</td>
<td>3</td>
</tr>
</tbody>
</table>

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NETWORK ADMINISTRATOR
(NETWORK+, MCP OR UNIX, CCNA)
COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY
AS Degree
and
Certificate of Achievement Program

Network Administrators manage all of the day-to-day aspects of a computer network. In addition to configuring networks they are responsible for making the network operational 24 hours a day. Tasks performed include adding/deleting users, backing up the server, loading new software applications, and maintaining security. Network Administrators are responsible for fixing an application or service, such as e-mail or printer access, when it is not working properly. Candidates for this degree option must have strong PC skills prior to enrolling in the program.

Requirements for AS Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>LAN Network Design</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Router Configuration and Routing</td>
<td>4</td>
</tr>
<tr>
<td>CNET-156A</td>
<td>Routing and Switching</td>
<td>2</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>WAN Design and Support</td>
<td>2</td>
</tr>
<tr>
<td>CNET-157</td>
<td>TCP/IP and Internetworking</td>
<td>3</td>
</tr>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems AND</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162A</td>
<td>Microsoft Server Operating Systems AND</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162B</td>
<td>Windows Network Infrastructure Administration AND</td>
<td>2</td>
</tr>
<tr>
<td>CNET-164A</td>
<td>Microsoft Directory Services OR</td>
<td>2</td>
</tr>
<tr>
<td>CNET-140A</td>
<td>Linux Installation and Configuration AND</td>
<td>(2)</td>
</tr>
<tr>
<td>CNET-140B</td>
<td>Linux System Administration AND</td>
<td>(2)</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux AND</td>
<td>(3)</td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX Shell Programming</td>
<td>(4)</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td>(3)</td>
</tr>
</tbody>
</table>

30-33

(continued on next page)
SUPPORTING COURSES (Minimum six units required)

Choose 1-4 units from the following: 1-4
CNET-195A1-4 Internship

Choose 2-5 units from the following: 2-5
CNET-101 Introduction to Computers and Information Technology
CNET-105 PC Hardware and Software
CNET-140A Linux Installation and Configuration
CNET-140B Linux System Administration
CNET-142A Linux Networking
CNET-142B Linux Security
CNET-149 PERL Programming
CNET-158 Wireless Networks
CNET-149A Designing Microsoft Windows Directory Services Infrastructure
CNET-165A Designing a Secure Microsoft Windows Network
CNET-165B Microsoft Internet Security and Acceleration Server (ISA)
CNET-167A Network Application Administration I-Email (Exchange)
CNET-167B Network Application Administration II-Database (SQL)
CNET-170 Network Security
CNET-182 Advanced Routing
CNET-183 Remote Access Networks
CNET-184 Advanced Switching
CNET-185 Intemetworx Troubleshooting
CS-102 Introduction to Computer Programming Using C++
CS-104A Visual Basic.NET Programming
CS-170 Java Programming
CS-175 Script Technology for Web Development
CS-176 CGI Programming with PERL for Web Development

PHYSICAL THERAPIST ASSISTANT
AS Degree

The Physical Therapist Assistant (PTA) Program is a two calendar year course of study leading to an Associate of Science Degree and eligibility to take the National PTA licensing examination. The degree requirements include general education, supporting courses, and Physical Therapist Assistant theory and clinical courses. Successful completion of the PTA major field courses and supporting courses meet the Tech Tools graduation requirement.

The PTA Program at Ohlone College is limited to 32 students per class each academic year. Clinical affiliations are an essential part of the program. Students are expected to be able to travel to off-campus locations in the greater Bay Area.

Ohlone College’s PTA program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

Physical Therapist Assistants (PTAs) are skilled health care providers who work under the direction of a Physical Therapist (PT). Duties of the PTA include assisting the PT in implementing treatment programs, training patients in exercise and activities of daily living, conducting treatments, and reporting to the PT on the patient’s response.

PTAs work in HMO’s, hospitals, private physical therapy offices, community health centers, corporate and health centers, nursing homes, home health agencies, schools, pediatric centers, and colleges and universities.

Program Admission is based on a selective process and involves a special Application for Admission. Applicants are selected once a year and begin the course of study each Fall semester. For program information and application see the PTA Web page at http://www.ohlone.edu/instr/phys_ther/home.html.

Requirements for AS Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete each Major Field and Supporting Course with a grade of C or better.

MAJOR FIELD

PTA-101 Introduction to Physical Therapy 3
PTA-102 Pathology 3
PTA-103 Kinesiology I 3
PTA-104 Kinesiology II 3
PTA-105A Therapeutic Exercise I 3
PTA-105B Therapeutic Exercise II 3
PTA-106 Orthopedics 2
PTA-107A Clinical Practicum I 1
PTA-107B Clinical Practicum II 2
PTA-107C Clinical Practicum III 3
PTA-108 Advanced Modalities 2
PTA-109 Physical Therapy Through the Life Span 2
PTA-110 Neurological Disorders 2
PTA-111 Advanced Procedures 2
PTA-112 Clinical Affiliation 4.5

SUPPORTING COURSES

BIOL-103A Human Anatomy and Physiology 4
BIOL-103B Human Anatomy and Physiology 4
PSY-108 A Survey of Human Development 3
PTA-119/PE-256 Sports Performance Testing 2
REAL ESTATE SALES BROKER

AA Degree
and
Certificate of Achievement Program

This curriculum is designed to prepare students for employment as a real estate sales broker. Opportunities exist in sales, appraising, with a real estate finance organization, or with a title company. The program qualifies students for the real estate sales broker examination.

Requirements for AA Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-106</td>
<td>Applied Accounting</td>
<td>3</td>
</tr>
<tr>
<td>RE-121</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RE-122</td>
<td>Real Estate Practice</td>
<td>3</td>
</tr>
<tr>
<td>RE-124</td>
<td>Legal Aspects of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>RE-126</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>RE-128</td>
<td>Real Estate Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>RE-149</td>
<td>Real Estate Property Management</td>
<td>3</td>
</tr>
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</table>

SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-102A</td>
<td>Principles of Economics-Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BA-123</td>
<td>Math for Accounting and Business</td>
<td>3</td>
</tr>
<tr>
<td>BA-141A</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
<td>1</td>
</tr>
</tbody>
</table>

REGISTERED NURSE

AS Degree

The nursing program is an Associate of Science Degree program that can be completed in four semesters and one summer session after admission to the major. The graduates of an associate degree program in nursing are prepared to practice as staff nurses in direct patient care in hospitals and long-term care facilities, clinics, and other agencies where nursing roles and services are structured and well developed. Clinical, hospital, and community experiences are provided at a number of sites in Alameda, Santa Clara, and other local counties. During the first year, nursing students take basic nursing and support courses to the major. The development of critical thinking, professional oral and written communications, and ethical practice form the foundation for success in future nursing courses. Beginning in the latter part of the first year and continuing through the second year, nursing courses are more specifically concerned with the care of patients ranging in age from infants to the elderly, with various conditions affecting their health. With expert faculty guidance, nursing students learn to function in the clinical setting as they care for clients with a wide variety of health illness problems.

There is no Certificate of Achievement offered in this major. The program prepares the associate degree graduate to take the NCLEX-RN (licensing exam), leading to practice as a Registered Nurse (R.N.).

The program is based on a selective admission process and involves a special application due in April for admission the following Fall Semester (August) and October for Spring Semester (January). For more information on advanced placement, LVN RN, and the 30 unit option, see the Health Sciences Web pages. The program is accredited by the National League for Nursing Accrediting Commission (61 Broadway, New York, New York, 10006; (212) 363-5555; www.nln.org) and the California Board of Registered Nursing (400 R Street, Suite 4030, Sacramento, California 95814; (916) 322-3350; www.rn.ca.gov).

Requirements for AS Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete each Major Field and Supporting Course with a grade of C or better.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR-301</td>
<td>Foundations of Nursing</td>
<td>5.5</td>
</tr>
<tr>
<td>NUR-302</td>
<td>Nursing Care of the Medical-Surgical Patient I</td>
<td>5</td>
</tr>
<tr>
<td>NUR-303</td>
<td>Nursing Care of Women and Children</td>
<td>8</td>
</tr>
<tr>
<td>NUR-304</td>
<td>Nursing Care of the Medical-Surgical Patient II</td>
<td>5</td>
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<tr>
<td>NUR-305</td>
<td>Nursing Care of the Medical-Surgical Patient III</td>
<td>5</td>
</tr>
<tr>
<td>NUR-306</td>
<td>Nursing Care of the Mental Health Client and Advanced Gerontologic Care</td>
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</tr>
<tr>
<td>NUR-307</td>
<td>Nursing Leadership and Preceptorship</td>
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SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL-103A</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-103B</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-106</td>
<td>Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>CFS-109</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PSY-108</td>
<td>A Survey of Human Development</td>
<td>3</td>
</tr>
</tbody>
</table>
RESPIRATORY THERAPIST

AS Degree

Respiratory Care is a health care specialty directed at the diagnosis, treatment, management, and care of patients with deficiencies and abnormalities associated with the cardio respiratory system. Upon completion of the program graduates are eligible to sit for the California State License Examination for Respiratory Care Practitioner (RCP). Once the RCP Credential has been attained graduates are eligible to sit for the Advanced Level Practitioner Examinations (RRT) of the National Board for Respiratory Care.

This program is based on a selective admission process and involves a special Application for Admission. Applicants are selected once a year and begin the course of study each Fall semester. For program application contact the Health Sciences Division Office. For program information see the College’s Web page.

Requirements for AS Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete each Major Field and Supporting Course with a grade of C or better.

MAJOR FIELD

RT-101 Principles of Respiratory Therapy I 3
RT-101L Beginning Clinical Practice 1
RT-102 Beginning Laboratory 2
RT-103 Basic Patient Care .5
RT-104A Principles of Respiratory Therapy II 3
RT-104B Principles of Respiratory Therapy III 3
RT-105A Intermediate Laboratory I 1
RT-105B Intermediate Laboratory II .5
RT-106 Intermediate Clinical Practice (twice) OR
RT-107 Intermediate Clinical Practice (4)
RT-108 Basic Principles of Respiratory Pathophysiology 1
RT-130A Advanced Respiratory Therapy I 2.5
RT-130B Advanced Respiratory Therapy II 1.5
RT-130L Advanced Clinical Practice 2
RT-131A Principles of Mechanical Ventilation I 2.5
RT-131B Principles of Mechanical Ventilation II 2.5
RT-132 Advanced Laboratory 1
RT-133 Mechanical Ventilation Laboratory 2
RT-134 Neonatal and Pediatric Respiratory Care 1
RT-134L Clinical Practicum in Neonatal and Pediatric Respiratory Care 1.5
RT-135 Computer Simulation for Respiratory Care .5
RT-136 Critical Care Clinical Practice 3.5
RT-137 Home Respiratory Care and Pulmonary Rehabilitation .5
RT-138 Specialty Rotations in Respiratory Care .5
RT-139 Pulmonary Function Testing 1
RT-139L Clinical Practice in Pulmonary Function Testing .5
RT-145 Cardio-Pulmonary Resuscitation Basic Life Support .5

42.5

SUppORTING COURSES

AH-151 Applied Clinical Pharmacology 2
BIOL-104 Basic Human Anatomy and Physiology 4
BIOL-106 Microbiology OR 5
BIOL-107 Microbiology and Infectious Diseases (3)
PHYS-108 Survey of Physics 3
PSY-105 Child Development OR 3
PSY-106 Adolescent Development OR (3)
PSY-108 A Survey of Human Development OR (3)
PSY-110 Psychology of Human Relations OR (3)
PSY-114 Introduction to Paraprofessional Counseling (3)

15-17

TECHNICAL SUPPORT SPECIALIST

(A+, NETWORK+, MCP)

COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY

AS Degree

and Certificate of Achievement Program

A Technical Support Specialist offers frontline support to end-users, assisting them in getting the most from their computer product. The specialist is responsible for leading the end-users through various procedures helping them fix their problems; this support could be conducted over the telephone, one-on-one, or in a small group training session.

Requirements for AS Degree:

a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.

certificate of achievement:

a) Complete Major Field courses as indicated below.
b) Complete at least six units at Ohlone College.
c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

CNET-101 Introduction to Computers and Information Technology 3
CNET-105 PC Hardware and Software 4
CNET-146 Introduction to UNIX/Linux 3
CNET-150 Network Operating Systems 4
CNET-152 Data Communications 2
CNET-157 TCP/IP and Internetworking 3
CNET-160A Microsoft Client Operating Systems 2
CNET-162A Microsoft Server Operating Systems 2
ENGL-156 Introduction to Report and Technical Writing OR 3
SPCH-115 Career Communication (5)

42.5

(continued on next page)
### SUPPORTING COURSES (Minimum six units required)

Choose 1-4 units from the following:
- CNET-195A1-A4 Internship

Choose 2-5 units from the following:
- CNET-140A Linux Installation and Configuration
- CNET-140B Linux System Administration
- CNET-142A Linux Networking
- CNET-142B Linux Security
- CNET-147 UNIX Shell Programming
- CNET-149 PERL Programming
- CNET-150 Network Operating Systems
- CNET-155A LAN Network Design
- CNET-155B Router Configuration and Routing
- CNET-156A Routing and Switching
- CNET-156B WAN Design and Support
- CNET-158 Wireless Networks
- CNET-162B Windows Network Infrastructure Administration
- CNET-164A Microsoft Directory Services
- CNET-164B Designing Microsoft Windows Directory Services Infrastructure
- CNET-165A Designing a Secure Microsoft Windows Network
- CNET-165B Microsoft Internet Security and Acceleration Server (ISA)
- CNET-167A Network Application Administration I-Email (Exchange)
- CNET-168A Network Application Administration II-Database (SQL)
- CNET-170 Network Security
- CNET-175 Script Technology for Web Development
- CNET-176 CGI Programming with PERL for Web Development
- CS-102 Introduction to Computer Programming Using C++
- CS-104A Visual Basic.Net Programming
- CS-170 Java Programming
- CS-175 Script Technology for Web Development
- CS-176 CGI Programming with PERL for Web Development

### UNIX/LINUX SYSTEMS ADMINISTRATOR

**COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY**

**AS Degree**

and

**Certificate of Achievement Program**

Students who complete this program learn the skills and the general knowledge of UNIX/Linux Systems Administration, including an understanding of theory and the development of a solid foundation of system administration skills. Graduates are qualified for entry-level positions in UNIX/Linux Systems Administration.

#### Requirements for AS Degree:

a) Complete Major Field and Area Specialization courses with a 2.0 grade point average.

b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.

c) Complete at least 60 degree-applicable units with a 2.0 grade point average.

d) Complete at least 12 units at Ohlone College.

#### Requirements for Certificate of Achievement:

a) Complete Major Field and Area Specialization courses as indicated below.

b) Complete at least six units at Ohlone College.

c) Maintain a 2.0 grade point average in Major Field and Area Specialization courses.

### MAJOR FIELD

- CNET-140A Linux Installation and Configuration 2
- CNET-140B Linux System Administration 2
- CNET-142A Linux Networking 2
- CNET-142B Linux Security 2
- CNET-146 Introduction to UNIX/Linux 3
- CNET-147 UNIX Shell Programming 4
- CNET-149 PERL Programming 4
- CNET-150 Network Operating Systems 4
- SPCH-115 Career Communication 3

### AREA SPECIALIZATIONS

Complete one course from each of the following Area Specializations.

**Advanced Administration Elective**

- CNET-135 Database Fundamentals I: Database Architecture and Administration 4
- CNET-170 Network Security 4
- CNET-195A1-A4 Internship (1-4)

**AND**

**Programming Elective**

- CNET-137 Introduction to SQL Programming 4
- CS-102 Introduction to Computer Programming Using C++ 4
- CS-124 Advanced Programming with Data Structures 4
- CS-170 Java Programming 4

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73 CURRICULUM GUIDES 2007-2008 OHLONE COLLEGE CATALOG
CERTIFICATES OF COMPLETION

Certificates of Completion are awarded upon the completion of an organized course of study for a specific course, usually career or job related. Certificates of Completion consist of a maximum of 18 units and allow students to finish the program in a shorter period of time. In order to earn a Certificate of Completion students must:

a) satisfactorily complete the courses listed for the particular certificate.
b) complete at least 50% of the required units at Ohlone College.
c) maintain a 2.0 grade point average.

ANTHROPOLOGY: CULTURAL

The Cultural Anthropology Certificate is awarded to students who have completed courses that trace the historic and prehistoric development and change in various cultures. Upon completion of the certificate requirements students will have completed a comprehensive spectrum of topics including development of language, traditions, belief systems, and economic and political organizations in various cultures. This certificate gives students an appreciation for diverse cultures and it provides a better understanding of the development of world social and political institutions.

ANTH-101 Physical Anthropology 4
ANTH-102 Cultural Anthropology 3
ANTH-104 Survey of North American Indian Cultures 3
GEOG-102 Cultural Geography 3

Choose one course from the following:

IS-110 Introduction to Ethnic Studies OR 3
IS-120 Women of the Western World 3

16

ANTHROPOLOGY: PHYSICAL

The Physical Anthropology Certificate is designed to provide students with a basic foundation in the interaction between biology and culture. Upon completion of this certificate students will have completed lecture and laboratory training in paleontology and biology as these relate to the evolution of man. This certificate is well suited to prepare students to pursue further studies in fields that require an appreciation for our evolutionary and cultural past.

ANTH-101 Physical Anthropology 4
ANTH-102 Cultural Anthropology 3
BIOL-105 Heredity, Evolution, and Society 3
BIOL-130 Introduction to Biology 4
GEOL-103 Paleontology and Dinosaurs 3

17

ARCHAEOLOGY

The Certificate in Archaeology is designed to provide students with the necessary anthropological archaeology skills to either continue for a four-year degree in archaeology or to obtain entry-level employment in cultural resource management. Students who complete this program will be educated in basic concepts, theories, and methods employed by archaeologists in reconstructing past life ways of humans and to aid in the preservation of culture and history. The courses required for this program will also satisfy the entry prerequisites for the Archaeological Technology Certificate Program at Cabrillo College in Aptos, California.

ANTH-102 Cultural Anthropology 3
ANTH-103 Introduction to Archaeology and Prehistory 3
ANTH-104 Survey of North American Indian Cultures 3
ANTH-105 Field Archaeology 3
CS-101L Computer Applications 2
ENGL-103 Writing That Works 3

17

Recommended Courses: (Optional)
GEOG-121 Introduction to Geographic Information Systems (GIS) 2
GEOG-122 Environmental GIS 2
GEOG-123 GIS Projects 2

ART HISTORY

Students who complete this certificate have received exposure to the major components of Art History. Courses cover art from ancient times through the 14th century A.D. and art and architecture of the 14th century through the Baroque period, the Renaissance to the 18th century, and the 19th and 20th centuries. This certificate provides a firm foundation for continued study in the field of art.

ART-103A Survey of World Art History-Prehistoric Through 1300 C.E. 4
ART-103B Survey of World Art History-14th Century Through 20th Century 4
ART-117A Museum and Gallery Techniques (Exhibition Production) 2
ART-153 History of Decorative Arts 3

13

ASTRONOMY

Students completing this certificate have received basic knowledge about the properties of stars and planets as well as insight in the physical principles underlying galaxy, star, and planet formation and evolution. In addition, students will have gained some quantitative understanding of measurement techniques involved in the study of these systems.

This knowledge not only provides the first foundation for continued study in astronomy or in the broad and expanding field of environmental sciences, but it will also facilitate paraprofessional employment in the form of research internships with various city, county, state, and private agencies.

ASTR-101A General Astronomy of the Solar System 3
ASTR-101B General Astronomy Beyond the Solar System 3
MATH-181 Trigonometry 3

9
This certificate signifies that students have mastered the basic skills of sound reinforcement and recording for live and recorded events. Successful completion of this certificate will provide a solid basis for future study in sound design and live event reinforcement.

BRDC-132/MUS-113 Studio Recording 3
TD-152 Introduction to Lighting 3
TD-160A - 160A2 Production Lab .5-2
TD-170 Survey of Entertainment Design 3
TD/BRDC-180 Television Series Production 3

12.5-14

BALLE DANCE TEACHER/CHOREOGRAPHER

The student will focus on teaching styles and choreography. Each student will have the opportunity to mentor with a dance faculty and learn various teaching styles. The student will also learn theatre technology and lighting design. This will enhance the student's ability to communicate with theatre technicians in the field and provide for a better expression of choreography.

This certificate signifies that the student has competent teaching skills and has adequate experience in theatrical stage craft and lighting design necessary to communicate expressed choreography in the professional theatrical field.

TD-121C Dance Rehearsal and Performance 4
TD-121L Dance Rehearsal and Performance Lab 0
TD-141A Introduction to Ballet AWD 2
TD-141B Intermediate Ballet (taken twice) OR 4
TD-141B Intermediate Ballet (taken three times) (6)
TD-149 Choreography for Production 2
TD-152 Introduction to Lighting 3
TD-160L Production Lab 0
TD-161 Stagecraft Lab (Theatre, Television, Dance) 1

16-18

BIOLOGY: GENERAL

The certificate in General Biology indicates that students have successfully completed a regimen of introductory science courses including chemistry (inorganic and organic), mathematics or physics, and introductory college biology. Most of these courses are transferable and constitute a part of the freshman/sophomore core courses for the bachelor's degree in biology at four-year institutions. Students gain knowledge and laboratory skills in molecular and cell biology, metabolic processes, microscopy, genetics, DNA technology, microbiology, systematics, plant and animal physiology, and evolution and ecology. This certificate prepares students for a wide range of technical positions in private industry (biotechnology, pharmaceutical and medical supply, agricultural, environmental consulting firms, etc.) or in city, state, or federal agencies. This certificate is also ideal for students planning to pursue advanced studies in biology.

Choose one of the following courses:
MATH-101A Calculus with Analytic Geometry OR
PHYS-121 Introduction to Physics II OR
PHYS-142 Optics, Heat, and Modern Physics (4)

Choose two units in Biology from the following:
BIOL-101B Principles of Biology-Organisms and Systems 5
CHEM-112B Organic Chemistry 5

BIOLOGY: HUMAN

The Human Biology Certificate is designed to provide students with a basic foundation on which to build their understanding of human biology. This certificate program is primarily for those students who will pursue careers as allied health professionals (e.g., nursing, respiratory therapy, and physical therapy assistant programs) and fulfills the typical prerequisite requirements for entry into these programs. Some variations in program requirements make it essential that the student refer to the catalog of the program of interest and consult a counselor.

BIOLOGY: LIFE SCIENCES SURVEY

This certificate demonstrates that students have received training in biological principles as they relate to evolution, human systems, and the interaction of humans with their natural world. Current techniques and issues in genetics, ecology, and disease are emphasized. This certificate provides the basics for further studies in the life sciences.

Choose one course from the following:
BIOL-101B Principles of Biology-Organisms and Systems 5
CHEM-112B Organic Chemistry 5

Choose one of the following courses:
MATH-101A Calculus with Analytic Geometry OR
PHYS-121 Introduction to Physics II OR
PHYS-142 Optics, Heat, and Modern Physics (4)

Choose two units in Biology from the following:
BIOL-101B Principles of Biology-Organisms and Systems 5
CHEM-112B Organic Chemistry 5

BIOLOGY: LIFE SCIENCES SURVEY

This certificate demonstrates that students have received training in biological principles as they relate to evolution, human systems, and the interaction of humans with their natural world. Current techniques and issues in genetics, ecology, and disease are emphasized. This certificate provides the basics for further studies in the life sciences.

Choose one course from the following:
BIOL-101B Principles of Biology-Organisms and Systems 5
CHEM-112B Organic Chemistry 5

Choose one of the following courses:
MATH-101A Calculus with Analytic Geometry OR
PHYS-121 Introduction to Physics II OR
PHYS-142 Optics, Heat, and Modern Physics (4)

Choose two units in Biology from the following:
BIOL-101B Principles of Biology-Organisms and Systems 5
CHEM-112B Organic Chemistry 5

(continued on next column)
## BIOTECHNOLOGY: RESEARCH ASSOCIATE/BIOTECHNICIAN

This certificate program provides students with hands-on skills development in the protocols, instrumentation, and equipment used in many biotechnology companies. Students will learn concepts in Molecular and Cellular Biology and laboratory safety. In addition, Ohlone’s state-of-the-art biotech laboratory enables students to learn techniques such as cell transformation, cell culture using the bioreactor, polymerase chain reaction using thermocyclers, DNA sequencing using the ABI 310 Genetic Analyzer, plant/agricultural biotechnology using the green house facility, and solution & media preparation. A goal of the Research Associate/Biotechnician Certificate Program is to prepare students for entry-level and other positions in biotechnology and pharmaceutical companies.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOT-105</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOT-110A*</td>
<td>Biotechnology Lab I</td>
<td>3</td>
</tr>
<tr>
<td>BIOT-110B</td>
<td>Advanced Biotechnology Theory and Applications</td>
<td>3</td>
</tr>
<tr>
<td>BIOT-111*</td>
<td>Advanced Biotechnology Lab</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-121</td>
<td>Biotechnology Careers</td>
<td>1</td>
</tr>
<tr>
<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
<td>4</td>
</tr>
</tbody>
</table>

Optional courses (recommended):
- BIOT-112 Introduction to Bioinformatics (2)
- BIOT-120 Introduction to Scanning Electron Microscopy (SEM) (1)
- BIOT-203 Biotechnology Internship (3)

*These courses must be taken at Ohlone College with a grade of B or better. If BIOT-105 or CHEM-109 is waived due to equivalent courses having been completed at other colleges, students will still be required to meet the 17 unit requirement by completing the appropriate number of BIOT courses listed as "Optional."

## BROADCASTING: DIGITAL VIDEO AND EDITING

This certificate is for students who want to focus on shooting video for television news and editing it for air.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-137</td>
<td>Video Field Production</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-138</td>
<td>AVID Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-139</td>
<td>Advanced AVID Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-141</td>
<td>Live TV Newscast</td>
<td>3</td>
</tr>
</tbody>
</table>

15

## BROADCASTING: ENTERTAINMENT TELEVISION

This certificate focuses on the skills needed to work on television sitcoms and drama series production.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-135</td>
<td>After Effects for Television</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-137</td>
<td>Video Field Production</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-138</td>
<td>AVID Editing OR</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-134</td>
<td>Final Cut Pro Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-180</td>
<td>Television Series Production</td>
<td>3</td>
</tr>
</tbody>
</table>

15

## BROADCASTING: LIVE TELEVISION PRODUCTION

This certificate is designed for students who may be considering a career in television news.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-141</td>
<td>Live TV Newscast</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-142</td>
<td>Live TV Studio Production</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-148</td>
<td>Directing Live Television</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-155</td>
<td>Mass Media and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

15

## BROADCASTING: MUSIC VIDEO PRODUCTION

These classes give students skills to shoot, edit, and market high quality music videos.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-135</td>
<td>After Effects for Television</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-138</td>
<td>AVID Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-139</td>
<td>Advanced AVID Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-150</td>
<td>Music Video Production</td>
<td>3</td>
</tr>
</tbody>
</table>

15

## BROADCASTING: RADIO AIR TALENT

The Radio Broadcasting Air Talent certificate indicates successful completion of courses covering the use of digital and analog studio systems required for on-air and basic production applications. Announcing instruction focuses on news, production, and air personality development.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-123A</td>
<td>Radio Operations I</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-123B</td>
<td>Radio Operations II</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-127A</td>
<td>Radio Broadcast Lab</td>
<td>1</td>
</tr>
<tr>
<td>BRDC-130</td>
<td>Broadcast Announcing</td>
<td>3</td>
</tr>
</tbody>
</table>

10
**BROADCASTING: RADIO DIGITAL PRODUCTION**

Completion of curriculum required for the Radio Broadcasting Digital Production certificate indicates familiarity with advanced digital production and on-air studio systems. Students are introduced to integrated digital station operating platforms.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-123A</td>
<td>Radio Operations I</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-123B</td>
<td>Radio Operations II</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-127A</td>
<td>Radio Broadcast Lab</td>
<td>1</td>
</tr>
<tr>
<td>BRDC-129</td>
<td>Digital Radio Studio Systems</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**BROADCASTING: RADIO PROGRAM MANAGEMENT**

The Radio Broadcasting Program Management certificate indicates successful completion of courses covering the operation of digital and analog studio systems required for on-air and basic production applications. Additional emphasis is placed upon radio station programming techniques, management structure, research, and the responsibilities of the program director.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-120</td>
<td>Introduction to Electronic Media</td>
<td>2</td>
</tr>
<tr>
<td>BRDC-123A</td>
<td>Radio Operations I</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-123B</td>
<td>Radio Operations II</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-127A</td>
<td>Radio Broadcast Lab</td>
<td>1</td>
</tr>
<tr>
<td>BRDC-128</td>
<td>Radio Programming and Marketing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

**BROADCASTING: RADIO STUDIO OPERATIONS**

The Radio Broadcasting Studio Operations certificate indicates successful completion of courses focusing on the operation of digital and analog studio equipment required for on-air and basic production applications.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-123A</td>
<td>Radio Operations I</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-123B</td>
<td>Radio Operations II</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-127A</td>
<td>Radio Broadcast Lab</td>
<td>1</td>
</tr>
<tr>
<td>BRDC-127B</td>
<td>Radio Broadcast Lab</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

**BUSINESS COMMUNICATION**

This certificate provides students with communication skills required for careers in business.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-102</td>
<td>Critical Thinking/Group Decision Making OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-104</td>
<td>Critical Thinking/Persuasion OR</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-106</td>
<td>Critical Thinking/Argumentation and Debate</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-105</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH/BA-115</td>
<td>Career Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**CERAMICS**

Completion of this certificate signifies that students have received exposure to the art of ceramics with emphasis on wheel throwing, advanced hand building, glaze application, and loading and firing of bisque kilns. This certificate provides a good foundation for continued study in the field of the art of ceramics.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-121A</td>
<td>Introductory Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART-121B</td>
<td>Introductory Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>ART-122A</td>
<td>Ceramic Throwing I</td>
<td>3</td>
</tr>
<tr>
<td>ART-122B</td>
<td>Ceramic Throwing II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**CHEMISTRY LAB SKILLS: ADVANCED**

This certificate in Advanced Chemistry Lab Skills emphasizes basic laboratory skills, plus experience with distillation, refluxing, purification techniques, melting point determinations, and hands-on use of FTIR. Ideal for the students seeking a research internship, this certificate demonstrates advanced skill and the ability to work independently in both organic and inorganic lab settings. Students receiving this certificate would be best qualified for more selective internships or employment in a chemical lab.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-112A</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

**CHEMISTRY LAB SKILLS: BASIC**

This certificate emphasizes basic laboratory skills including titration, pipetting, UV/Vis spectrophotometry, and solution preparation. Advantageous to any student interested in science, this certificate demonstrates a basic mastery of lab protocols in an inorganic lab setting. This certificate is highly recommended for stock room assistants and similar positions.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-101B</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

**CISCO CERTIFIED NETWORK ASSOCIATE**

Upon completion of the Cisco Certified Network Associate Certificate of Completion students will have gained the expertise they need to pass the test required to achieve Cisco Certified Networking Associate (CCNA) status. CCNA Certification skills include the ability to install, configure, and operate simple-routed LAN, routed WAN, and switched LAN networks.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-155A</td>
<td>LAN Network Design</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Router Configuration and Routing</td>
<td>4</td>
</tr>
<tr>
<td>CNET-156A</td>
<td>Routing and Switching</td>
<td>2</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>WAN Design and Support</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>
COMMERCIAL MUSIC

The Music Department at Ohlone College has developed the Commercial Music Certificate to recognize completion of coursework in a range of commercially oriented music courses. Recipients will have a solid foundation in working with Pro Tools, digital audio, MIDI (Musical Instrument Digital Interface), Studio Recording Techniques, and Live Sound Reinforcement, all of which are basic for work in the field.

MUS-103 Fundamentals of Music 3
MUS-112A Recording with Pro Tools 3
MUS-112B Pro Tools and MIDI 3
MUS-113 Studio Recording 3
MUS-114 Create a CD 2
MUS-116 Sound Reinforcement and Live Recording 3

MUS-115 Studio Recording 3
MUS-117 Create a CD 2
MUS-119 Sound Reinforcement and Live Recording 3

COMPUTER AND INFORMATION LITERACY

This certificate will provide literacy in the area of computers and information technology.

CAOT-153 Introduction to Internet 1
CS-101 Introduction to Computers and Information Technology 3
CS-102L Computer Applications 3
CS-102 Introduction to Computer Programming Using C++ OR 4
CS-104A Visual Basic.NET Programming OR 4
CS-152 Data Communications 2

COMPUTER APPLICATIONS IN BIOTECHNOLOGY

The field of computer applications in biotechnology is a complex hybrid of two distinct scientific disciplines – computer technology and bioscience. This certificate is designed to provide an understanding of bioinformatics and other computer related subjects for students whether or not they possess a background in bioscience. This program is also useful for students who desire to explore this new information science in which computers help to simulate, visualize, and analyze genetic and biological information. This certificate provides an introduction to the fundamental scientific and computational concepts, methods, and tools central to the growing field of computer applications in biotechnology.

Students who complete this program will be able to do the following:
- Explain in writing the cutting-edge biological concepts and technologies in biotechnology;
- Use the main databases, tools, and methods for the storage, searching, and analysis of biological molecules;
- Solve computational problems common to bioinformatics and apply classical computer science solutions to biotechnology;
- Use the statistical analysis software systems for data analysis and manipulation with emphasis on bioinformatics tasks;
- Describe the basic fundamentals of cells, major cellular components, DNA, and proteins;
- Use basic sequence analysis techniques in bioinformatics;
- Apply fundamental algorithms in biomolecular sequence analysis to problem solving in biotechnology.

BIOT-112 Introduction to Bioinformatics 2
BIOT-121 Biotechnology Careers 1
CS-131/BIO-131 Computing Concepts in Biotechnology 4
CS-133/BIO-133 SAS Programming 3
CS-132/BIO-132 DNA Computing 1
BIOT-122 Introduction to Nanotechnology 3

COMPUTER PROGRAMMING

Upon completion of the Computer Programming Certificate students will be capable of writing high-level language programs in procedural and event-driven languages and will be able to do some object-oriented programming as well.

CS-102 Introduction to Computer Programming Using C++ 4
CS-104A Visual Basic.NET Programming 4
CS-116 C++ Programming: An Object-Oriented Language OR 4
CS-170 Java Programming OR 4
CS-171 Advanced Java Programming 4
CS-118 Introduction to Assembly Language Programming OR 4
CS-124 Advanced Programming with Data Structures 4

Photo courtesy of Julie Houle.
COMPUTER STUDIES PROFICIENCY

This certificate prepares students with an introduction to office skills.

- CAOT-134A Beginning Microsoft Access .5
- CAOT-153 Introduction to Internet 1
- CAOT-156 Microsoft Publisher .5
- CAOT-164 Introduction to FrontPage .5
- CAOT-172A Beginning Word .5
- CAOT-187 PowerPoint Presentations .5
- CAOT-193A Beginning Excel .5
- CS-101 Introduction to Computers and Information Technology 3

7

COSTUMING

This certificate signifies that students have mastered the basic skills of costume construction and maintenance as well as the use of theatrical make-up. Successful completion will provide a solid basis for future study in costume design.

- ART-106A Descriptive Drawing 3
- ID-158 Textiles 3
- TD-154 Theatrical Makeup for Stage, TV, and Dance 2
- TD-155A Costume Construction I 3
- TD-155B Costume Construction II 3
- TD-160A - 160A2 Production Lab .5-2

14.5-16

DATA COMMUNICATIONS AND INTERNETWORKING

This certificate prepares students with an introduction to office and computer program data structures in C++ programming skills.

- CS-101 Introduction to Computers and Information Technology 3
- CS-101L Computer Applications 2
- CS-102 Introduction to Computer Programming Using C++ 4
- CS-152 Data Communications 2

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DATA COMMUNICATIONS AND WEB PROGRAMMING

This certificate will provide students with information and skills in data communications and Internet programming.

- CAOT-153 Introduction to Internet 1
- CS-152 Data Communications 2
- CS-175 Script Technology for Web Development 4
- CS-176 CGI Programming with PERL for Web Development 3

10

DATABASE ADMINISTRATION

This certificate prepares students in Oracle database administration.

- CNET-135 Database Fundamentals I: Database Architecture and Administration 4
- CNET-136 Database Fundamentals II: Database Backup and Recovery 4
- CNET-137 Introduction to SQL Programming 4

12

DEAF EDUCATION

Course offerings for this certificate are designed to provide students with the necessary knowledge and background information on the educational needs of Deaf and hard of hearing children. Historical perspectives and contemporary trends associated with Deaf Education are discussed. The focus of these courses is to provide Deaf and hard of hearing students with opportunities to compare and contrast classroom learning with their own personal experiences.

- DEAF-191 Human Potential Seminar 2
- DEAF-311 Introduction to American Deaf Culture 3
- DEAF-312 Linguistics of ASL 3
- DEAF-330 Educating the Deaf 3
- DEAF-331 Counseling the Deaf 3
- DEAF-332 Development of the Deaf Child 3

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DESIGN

The Design Certificate of Completion signifies that students have received exposure to techniques, concepts, color theory, and drawing, with emphases on creative expression and composition. This certificate provides a good foundation for continued study in the field of drawing and design.

- ART-104B 3D Design 3
- ART-104C Color 3
- ART-106A Descriptive Drawing 3
- ART-106B Intermediate Descriptive Drawing 3

12

DESKTOP PUBLISHING

Upon completion of the Desktop Publishing Certificate of Completion program students will be capable of using desktop publishing software to design and create printed documents and graphics. In addition, they will acquire basic skills for making presentations.

- CAOT-187 PowerPoint Presentations .5
- CAOT-188 Desktop Publishing with QuarkXpress 2
- GA-160A Computer Graphics I 4
- GA-160B Computer Graphics II OR 4
- GA-161A Digital Graphics I (2)

8.5-10.5
DESKTOP SUPPORT (A+, SERVER+, MCP)

This certificate will assist students in offering frontline or helpdesk support to end-users, assist computer users in getting the most from their computer products, and lead them through various procedures, helping them to fix problems. This support is conducted over the telephone, one-on-one, or in a small group training session.

CNET-105  PC Hardware and Software  4
CNET-150  Network Operating Systems  4
CNET-160A  Microsoft Client Operating Systems  2
CNET-162A  Microsoft Server Operating Systems  2

DIGITAL ART

The Digital Art Certificate of Completion signifies that students have received exposure to the basic design, solutions, and presentation in Graphic and Digital Art. This certificate provides a good foundation for continued study in the field of graphic and digital art.

ART-139A  Digital Photography  2
ART-160A  Computer Graphics I  4
ART-161A  Digital Graphics I  2
ART-160B  Computer Graphics II OR  4
ART-161B  Digital Graphics II AND  (2)
ART-139B  Intermediate Digital Photography  (2)

DRAWING

The Drawing Certificate of Completion signifies that students have received and developed basic drawing skills and techniques and have had exposure to composition, presentation, and creative expression. This certificate provides a firm foundation in the field of art.

ART-106A  Descriptive Drawing  3
ART-106B  Intermediate Descriptive Drawing  3
ART-107A  Life Drawing OR  3
ART-107B  Life Drawing  (3)
ART-108  Perspective Drawing  3

EARTH AND ENVIRONMENTAL SCIENCES

This Certificate of Completion signifies that students have received basic knowledge of the earth sciences, environmental problems, and skills, which facilitate paraprofessional employment such as environmental technician, field assistant, as well as internships with various city, county, state, and private agencies. The certificate also provides a good foundation for continued study in the broad and expanding field of environmental sciences.

BIOL-108  Human Ecology  3
GEOG-121  Introduction to Geographic Information Systems (GIS)  2
GEOL-102  Introduction to Oceanography  3
GEOL-102L  Oceanography Laboratory  1
GEOL-103  Paleontology and Dinosaurs  3
GEOL-103L  Paleontology Laboratory  1

Choose from the following:

GEOG-101  Physical Geography OR  4
GEOL-101  Introduction to Geology  (4)

ELECTRONIC MUSIC COMPOSITION

The Music Department at Ohlone College has developed the Electronic Music Composition Certificate to recognize the completion of acquired skills in the field of electronic music composition. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set in electronic music and composition, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

MUS-103*  Fundamentals of Music  3
MUS-110A  Music Theory and Harmony  3
MUS-110L  Music Theory and Harmony  0
Performance Attendance Lab
MUS-111A  Musicianship  1
MUS-112A  Recording With Pro Tools  3
MUS-112B  Pro Tools and MIDI  3

*Students may test out of this course using credit by exam. Credit by exam can only be used to complete two out of the four required courses. At least two semesters must be completed in residence at Ohlone.

ENGINEERING

This certificate demonstrates that students have completed classes that serve as a beginning foundation for a career in engineering. These courses emphasize the application of scientific and mathematical principles to solving practical problems.

MATH-104  Differential Equations  5
PHYS-141  Electricity and Magnetism  4

Choose one course from the following:

ENGL-120  Engineering Mechanics-Statics OR  3
ENGL-130  Electric Circuit Analysis OR  (4)
ENGL-140  Materials Engineering  (4)

12-13
ENGLISH AS A SECOND LANGUAGE

The ESL Certificate of Completion is awarded to students after they finish a minimum of twelve units (12) in the Ohlone College ESL Program. These units include work in all English skills: speaking, listening, reading, writing, and grammar. Students can use the ESL Certificate as proof to their employer that they have completed ESL course work and can also include the ESL Certificate on their resume when applying for jobs so that they can show prospective employers they have completed work on their English skills. Finally, the certificate is a sign of personal achievement.

ESL-182 Integrated English Skills for Non-Native Speakers, Level II 6
ESL-184RW Reading and Writing, Level IV 4
SPCH/ESL-151 Introduction to Speech Communication Skills OR 3
SPCH/TD-132 Voice and Diction (3)

FINE ARTS

The Fine Arts Certificate of Completion recognizes the completion of acquired skills in the field of Fine Arts. This certificate gives students a broad understanding of modern or ancient art.

ART-103A Survey of World Art History-Prehistoric Through 1300 C.E. OR 4
ART-103B Survey of World Art History-14th Century Through 20th Century (4)
ART-104A 2D Design 3
ART-106A Descriptive Drawing 3
ART-107A Life Drawing OR 3
ART-117A Museum and Gallery Techniques (Exhibition Production) (2)

FITNESS INSTRUCTOR

The Fitness Instructor Certificate of Completion provides the instruction, skills, knowledge, and experience that facilitate employment in a job setting such as sports and fitness centers. The certificate provides an excellent foundation for students interested in a career in exercise science, athletic training, physical therapy, and other health related careers.

KIN-251 Fitness for Life 3
KIN-256/PTA-119 Sports Performance Testing OR (formerly PE-256) 2
KIN-257 Prevention and Care of Athletic Injuries (formerly PE-257) 4
KIN-258 Exercise Prescription (formerly PE-258) 3
KIN-382 Clinical Experiences in Sports Medicine II (formerly PE-382) 2

FORENSICS

This certificate provides students with training in speaking competitively.

SPCH-101 Introduction to Public Speaking 3
SPCH-110A Forensics Workshop OR 6
SPCH-112A Argumentation and Debate Workshop (6)
SPCH/TD-132 Voice and Diction 3

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

GIS is a computer-based database management system for capture, storage, retrieval, analysis, and display of spatial data. Students who complete this program will be better prepared to map data for decision-making in business, environmental protection, risk assessment, utility planning and management, emergency response, land use planning, transportation planning, delivery route planning, real estate, and crime prevention.

GEOG-121 Introduction to Geographic Information Systems (GIS) 2
GEOG-122 Environmental GIS 2
GEOG-123 GIS Projects 2
Choose one course or combination of courses from the following: 3-5
ANTH-102 Cultural Anthropology (3)
ANTH-105 Field Archaeology (3)
BIOL-108 Human Ecology (3)
GEOG-101 Physical Geography AND (4)
GEOG-104 The World’s Nations (3)
GEOL-101 Introduction to Geology AND (4)
RE-122 Real Estate Practice (3)
SOC-102 Social Problems of a Diverse Society (3)

GEOGRAPHY: CULTURAL

This Certificate of Completion signifies that students have received basic training in regional variations of the world, as well as human modification of the physical environment. Upon completion of this certificate students will have lab experience with map analysis, weather, and the earth’s landform features and will be educated in current theories of how different cultures use, abuse, or otherwise change the earth. This certificate provides an excellent background for careers in public policy and environmental impact.

ANTH-102 Cultural Anthropology 3
BIOL-108 Human Ecology 3
GEOG-101 Physical Geography 4
GEOG-104 The World’s Nations 3

14-15
**GEOGRAPHY: PHYSICAL**

The Physical Geography Certificate is awarded for studies in geology and related courses; emphasis is placed on human modification of the physical environment and ecology. Students explore weather and climate, land forms, soil, water quality, and environmental management. This certificate is a good foundation for students interested in environmental fields.

- **GEOG-101 Physical Geography** 4
- **GEOG-104 The World’s Nations** 3
- **GEOL-101 Introduction to Geology** 4

Choose one course from the following:

- **BIOL-108 Human Ecology** OR
- **BIOL-140 Sierra Nevada Natural History** 3

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**INTERCULTURAL COMMUNICATION**

This certificate provides students with intercultural communication competence for business and personal relationships.

- **SPCH-105 Intercultural Communication** 3
- **SPCH-122 Family Communication OR** 3
- **SPCH-103 Interpersonal Communication** (3)
- **SPCH-110A - A3 Forensics Workshop OR** 1-3
- **SPCH-112A - A3 Argumentation and Debate Workshop** (1-3)

7-9

**INTERIOR DESIGN BASICS**

This Certificate of Completion signifies that students have received exposure to the major components of Interior Design. This certificate provides a firm foundation for continued study in the field of Interior Design.

- **ART-104B 3D Design** 3
- **ART-104C Color** 3
- **ID/ART-150A Interior Design Concepts** 3
- **ID/ART-153 History of Decorative Arts** 3
- **ID/ART-158 Textiles** 3
- **ID/ART-154 Contemporary Home Design OR** 2
- **ID/ART-159A Applied Design: Residential Lighting AND** (1)
- **ID/ART-159B Applied Design: Color for the Home** (1)

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**INTERIOR DESIGN COMMUNICATIONS**

This Certificate of Completion signifies that students have developed basic graphic and design communication skills and have a firm understanding and appreciation of the importance of visualization and presentation in the practice of Interior Design. This certificate provides a good foundation for continued study in the field of Interior Design.

- **ART-106A Descriptive Drawing** 3
- **ART-108 Perspective Drawing** 3
- **ID/ART-150A Interior Design Concepts** 3
- **ID/ART-151 Visualization and Presentation** 3
- **SPCH-115 Career Communication** 3

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**INTERIOR DESIGN TECHNOLOGY**

This Certificate of Completion signifies that students have developed basic drafting skills and have knowledge of the design technologies associated with Interior Design. This certificate provides a good foundation for continued study in the field of Interior Design.

- **ID/ART-150A Interior Design Concepts** 3
- **ID/ART-155A Architectural Drafting for Interior Design** 3
- **ID/ART-155B CAD for Interior Design** 3
- **ID/ART-156 Architectural Modelmaking for Interior Design** 3

12
INTERNET APPLICATIONS DEVELOPMENT

This certificate provides students with knowledge and skills in Internet applications programming and development.

CS-170 Java Programming 4
CS-171 Advanced Java Programming 4
CS-175 Script Technology for Web Development OR 4
CS-178 XML (3)

INTERPERSONAL COMMUNICATION

This certificate provides students with competence in communicating interpersonally in their personal and professional lives.

SPCH-102 Critical Thinking/Group Decision Making OR 3
SPCH-104 Critical Thinking/Persuasion (3)
SPCH-103 Interpersonal Communication 3
SPCH-110A1 - A3 Forensics Workshop OR 1-3
SPCH-112A1 - A3 Argumentation and Debate Workshop (1-3)

JAVA DEVELOPER

Upon completion of the Java Developer Certificate Program students will be capable to develop advanced Java programs and applications for the client-server computing, the Internet, and the Web Services with JSP, J2EE, and EJB.

CS-170 Java Programming 4
CS-172 Servlets and JSP 4
CS-173 J2EE and EJB 4
CS-178 XML 3

JAZZ DANCE TEACHER/CHOREOGRAPHER

The student will focus on teaching styles and choreography. Each student will have the opportunity to mentor with a dance faculty and learn various teaching styles. The student will also learn theatre technology and lighting design. This will enhance the student’s ability to communicate with theatre technicians in the field and provide for a better expression of choreography.

This certificate signifies that the student has competent teaching skills and has adequate experience in theatrical stage craft and lighting design necessary to communicate expressed choreography in the professional theatrical field.

TD-121C Dance Rehearsal and Performance 4
TD-121L Dance Rehearsal and Performance Lab 0
TD-142A Introduction to Jazz Dance AND 2
TD-142B Intermediate Jazz Dance AND 2
TD-142C Advanced Jazz Dance OR 2
TD-142B Intermediate Jazz Dance (taken twice) AND (4)
TD-142C Advanced Jazz Dance (2)
TD-160L Production Lab 0
TD-149 Choreography for Production 2
TD-152 Introduction to Lighting 3
TD-161 Stagecraft Lab (Theatre, Television, Dance) 1

JOURNALISM

Upon completion of the Journalism certificate, students will have gained a basic knowledge of the newspaper, magazine, public relations, and advertising fields. Writing, visualization, and story-telling are the basic skills of all media work. The Journalism Certificate covers these and more.

BA-129 Introduction to Advertising 3
JOUR-101A Newswriting 3
JOUR/ART-145 Digital Photojournalism 2
JOUR/BRDC-155 Mass Media and Society 3
JOUR-172 Newspaper Staff 3

LEADERSHIP COMMUNICATION

This certificate provides students with leadership and communication skills useful in their communities and careers.

PD-160 Student Leadership in Higher Education 2
SPCH-101 Introduction to Public Speaking 3
SPCH-102 Critical Thinking/Group Decision Making OR 3
SPCH-104 Critical Thinking/Persuasion OR (3)
SPCH-106 Critical Thinking/Argumentation and Debate (3)
SPCH-103 Interpersonal Communication OR 3
SPCH-105 Intercultural Communication (3)
SPCH-110A1 - A3 Forensics Workshop OR 2-3
SPCH-112A1 - A3 Argumentation and Debate Workshop (2-3)
### LINUX ADMINISTRATION

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-140A</td>
<td>Linux Installation and Configuration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-140B</td>
<td>Linux System Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-142A</td>
<td>Linux Networking</td>
<td>2</td>
</tr>
<tr>
<td>CNET-142B</td>
<td>Linux Security</td>
<td>2</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-157</td>
<td>TCP/IP and Internetworking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

### LIVE EVENT MANAGEMENT

This certificate signifies that students have mastered the basic skills for managing the live entertainment event. Students will be prepared for entry-level stage and/or event management positions as well as advanced study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSM-101</td>
<td>Fundamentals of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>TD-150</td>
<td>Technical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TD-159</td>
<td>Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>TD-160A</td>
<td>Production Lab</td>
<td>.5-2</td>
</tr>
<tr>
<td>TD-170</td>
<td>Survey of Entertainment Design</td>
<td>3</td>
</tr>
<tr>
<td>TD-179</td>
<td>Introduction to Stage Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15.5-17</td>
</tr>
</tbody>
</table>

### MATHEMATICS: APPLIED

The certificate in Applied Math provides students with the mathematical background required to succeed in subsequent courses in math, physics, and engineering.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

### MATHEMATICS: PURE

The certificate in Pure Math provides students with the mathematical background required to succeed in subsequent courses in math, physics, computer science, and engineering. This certificate differs from that in Applied Math due to the inclusion of Linear Algebra. Linear Algebra provides students with what is often their first taste of the theoretical math seen in upper division courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-103</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
<tr>
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<td>13</td>
</tr>
</tbody>
</table>

### MODERN DANCE TEACHER/CHOREOGRAPHER

The student will focus on teaching styles and choreography. Each student will have the opportunity to mentor with a dance faculty and learn various teaching styles. The student will also learn theatre technology and lighting design. This will enhance the student's ability to communicate with theatre technicians in the field and provide for a better expression of choreography.

This certificate signifies that the student has competent teaching skills and has adequate experience in theatrical stage craft and lighting design necessary to communicate expressed choreography in the professional theatrical field.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TD-121C</td>
<td>Dance Rehearsal and Performance</td>
<td>4</td>
</tr>
<tr>
<td>TD-121L</td>
<td>Dance Rehearsal and Performance Lab</td>
<td>0</td>
</tr>
<tr>
<td>TD-144A</td>
<td>Introduction to Modern Dance</td>
<td>2</td>
</tr>
<tr>
<td>TD-144B</td>
<td>Intermediate Modern Dance (taken twice) OR</td>
<td>4</td>
</tr>
<tr>
<td>TD-144B</td>
<td>Intermediate Modern Dance (taken three times)</td>
<td>(6)</td>
</tr>
<tr>
<td>TD-149</td>
<td>Choreography for Production</td>
<td>2</td>
</tr>
<tr>
<td>TD-152</td>
<td>Introduction to Lighting</td>
<td>3</td>
</tr>
<tr>
<td>TD-160L</td>
<td>Production Lab</td>
<td>0</td>
</tr>
<tr>
<td>TD-161</td>
<td>Stagecraft Lab (Theatre, Television, Dance)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

### MULTIMEDIA

Upon completion of a certificate in Multimedia students will have developed an interactive multimedia project that will integrate graphics, text sound, animation, and video for the World Wide Web and CD-ROM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM-102A</td>
<td>Multimedia I</td>
<td>4</td>
</tr>
<tr>
<td>MM-102B</td>
<td>Multimedia II</td>
<td>4</td>
</tr>
<tr>
<td>MM-110</td>
<td>Digital Video</td>
<td>4</td>
</tr>
<tr>
<td>GA/ART/BA/CS-160A</td>
<td>Computer Graphics I OR</td>
<td>4</td>
</tr>
<tr>
<td>GA/ART/CAOT-161A</td>
<td>Digital Graphics I OR</td>
<td>(2)</td>
</tr>
<tr>
<td>ART-139A/CS-169A/ GA-169A</td>
<td>Digital Photography</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14-16</td>
</tr>
</tbody>
</table>
**MUSIC THEORY: ADVANCED**

The Music Department at Ohlone College has developed the Advanced Music Theory Certificate to recognize the completion of acquired skills in the field of advanced music theory and musicianship. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set in music theory and musicianship, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-110C</td>
<td>Advanced Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110D</td>
<td>Advanced Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110L</td>
<td>Music Theory and Harmony</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Performance Attendance Lab</td>
<td></td>
</tr>
<tr>
<td>MUS-111C</td>
<td>Advanced Musicianship</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111D</td>
<td>Advanced Musicianship</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose one pair of courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-100</td>
<td>Survey of the Arts AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-100L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS-101</td>
<td>Introduction to Music-Western Classical Music AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-101L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS-102</td>
<td>Music Appreciation AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-102L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
</tbody>
</table>

Choose one pair of courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-100</td>
<td>Survey of the Arts AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-100L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS-101</td>
<td>Introduction to Music-Western Classical Music AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-101L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS-102</td>
<td>Music Appreciation AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-102L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
</tbody>
</table>

---

**MUSIC THEORY: INTRODUCTORY**

The Music Department at Ohlone College has developed the Introductory Music Theory Certificate to recognize the completion of acquired skills in the field of music theory and musicianship. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set in music theory and musicianship, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-110A</td>
<td>Music Theory and Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110B</td>
<td>Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110L</td>
<td>Music Theory and Harmony</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Performance Attendance Lab</td>
<td></td>
</tr>
<tr>
<td>MUS-111A</td>
<td>Musicianship</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111B</td>
<td>Musicianship</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose one pair of courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-100</td>
<td>Survey of the Arts AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-100L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS-101</td>
<td>Introduction to Music-Western Classical Music AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-101L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS-102</td>
<td>Music Appreciation AND</td>
<td>3</td>
</tr>
<tr>
<td>MUS-102L</td>
<td>Performance Attendance Lab</td>
<td>0</td>
</tr>
</tbody>
</table>

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**.NET PROGRAMMING I**

The Computer Studies certificate in .NET Programming prepares students to develop Windows applications and Web Services and applications. Successful completion of the courses provides students with the foundation for the Microsoft MCSD/MCAD certification.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAOT-145</td>
<td>Microsoft Visual Basic for Applications</td>
<td>3</td>
</tr>
<tr>
<td>CS-104A</td>
<td>Visual Basic.NET Programming OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-122</td>
<td>C#.NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-104B</td>
<td>Advanced Visual Basic.NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-178</td>
<td>XML</td>
<td>3</td>
</tr>
</tbody>
</table>

14 units

---

**.NET PROGRAMMING II**

The Computer Studies certificate in .NET Programming prepares students to develop Windows applications and Web Services and applications. Successful completion of the courses provides students with the foundation for the Microsoft MCSD/MCAD certification.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-104C</td>
<td>ASP.NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-104D</td>
<td>Web Services for .NET</td>
<td>4</td>
</tr>
<tr>
<td>CS-162</td>
<td>XHTML</td>
<td>4</td>
</tr>
<tr>
<td>CS-175</td>
<td>Script Technology for Web Development OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-126</td>
<td>Internet Security Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-180A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
</tbody>
</table>

14 units

---

**OFFICE COMPUTER APPLICATIONS**

Upon completion of the Office Computer Applications Certificate of Completion students will have a broad understanding of today’s computers and information technology. Students will have the ability to use a wide variety of business software such as word processing, spreadsheet, database, presentation, and desktop publishing. In addition, students will be introduced to Windows, Accounting, and the Internet.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-109A</td>
<td>Computerized Accounting for Personal Finance OR</td>
<td>1.5</td>
</tr>
<tr>
<td>BA-109B</td>
<td>Computerized Accounting for Small Business</td>
<td>(1.5)</td>
</tr>
<tr>
<td>CAOT-134A</td>
<td>Beginning Microsoft Access</td>
<td>.5</td>
</tr>
<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
<td>1</td>
</tr>
<tr>
<td>CAOT-172A</td>
<td>Beginning Word</td>
<td>.5</td>
</tr>
<tr>
<td>CAOT-187</td>
<td>PowerPoint Presentations</td>
<td>.5</td>
</tr>
<tr>
<td>CAOT-188</td>
<td>Desktop Publishing with QuarkXPress</td>
<td>2</td>
</tr>
<tr>
<td>CAOT-193A</td>
<td>Beginning Excel</td>
<td>.5</td>
</tr>
<tr>
<td>CAOT-193B</td>
<td>Intermediate Excel</td>
<td>.5</td>
</tr>
<tr>
<td>CAOT-194A</td>
<td>MS Office Advanced OR</td>
<td>2</td>
</tr>
<tr>
<td>CS-101L</td>
<td>Computer Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

9 units

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OFFICE SUPPORT

Upon completion of the Office Support Certificate of Completion students will have gained a knowledge of how a business functions and human relations in business. In addition, students will have acquired basic office support skills.

BA-116 Business English and Communication 4
CAOT-110A, B, or C Beginning Keyboarding I, II, or III 1
CAOT-172A Beginning Word .5
CAOT-172B Intermediate Word .5
CAOT-187 PowerPoint Presentations .5
CAOT-193A Beginning Excel .5

ORAL INTERPRETATION

This certificate provides students with vocal training that is helpful for careers in theater, business, law, and education.

SPCH-110A1 - A3 Forensics Workshop OR 1-3
SPCH-112A1 - A3 Argumentation and Debate Workshop (1-3)
SPCH/TD-130 Oral Interpretation of Literature 3
SPCH/TD-132 Voice and Diction 3

PAINTING

The Painting Certificate of Completion signifies that students have received exposure to the basic studio painting techniques and experiences with regard to color, composition, and subject matter. This certificate will give students a broad understanding of the art of painting.

ART-106A Descriptive Drawing 3
ART-111A Painting–Color and Composition 3
ART-111B Painting 3
ART-112 Watercolor 3

PALEOBIOLOGY/NATURAL HISTORY

This Certificate of Completion signifies that students have received basic knowledge in natural sciences and skills, which facilitate paraprofessional employment such as geological/biological field assistant and field naturalist. It also provides a good foundation for continued study in a broad variety of scientific fields including Biology, Geology, and Paleontology.

ANTH-101 Physical Anthropology 4
BIOL-130 Introduction to Biology 4
GEOL-103 Paleontology and Dinosaurs 3
GEOL-103L Paleontology Laboratory 1

Choose one from the following:
GEOG-101 Physical Geography OR 4
GEOL-101 Introduction to Geology (4)

PHLEBOTOMY

The Health Sciences Division offers a certificate program in phlebotomy that meets all of the Department of Health Services regulations (AB 1557) that became effective in January 2002. This program is approved by the Department of Health Services for the courses that include theory and lab practice plus a 108-hour externship. No transfer courses from other institutions are accepted for this certificate. Completion of this certificate allows students to sit for the NCCT exam as required by California State Bill AB 1557. All courses must be passed at Ohlone College with at least a grade of C to earn the certificate.

AH-110 Medical Terminology 2
AH-111 Medical Terminology 2
AH-117A Basic Phlebotomy Training 2
AH-117B Phlebotomy Skills Lab .5
AH-117C Advanced Phlebotomy Training 1.5
AH-117D Phlebotomy Externship 2

PHOTOGRAPHY

The Photography Certificate of Completion signifies that students have acquired skills in fundamental processes of photography including color and design with emphasis on creative expression. This certificate helps students develop concepts and skills that will enable them to develop creatively in the fine arts.

ART-133A Black and White Photography OR 3
ART-133B Intermediate Black and White Photography (3)
ART-134A Basic Color Photography 3
ART-139A Digital Photography 2
ART-139B Intermediate Digital Photography 2

PHOTOGRAPHY
PHYSICAL SCIENCE

The Certificate in Physical Science is awarded for studies of the physical world from the very small to the infinite. Upon completion of this certificate students will have investigated such phenomena as light, energy, the states of matter, chemical reactions, the formation of planet earth, and its place in the universe. This certificate provides an excellent foundation for further studies in science education and other fields.

PHYS-108 Survey of Physics 3
Choose one course from the following:
CHEM-101A General Chemistry OR 5
CHEM-106A Principles of Chemistry OR (4)
CHEM-108 Survey of Chemistry (3)
Choose one course from the following:
GEOL-101 Introduction to Geology OR 4
GEOL-102 Introduction to Oceanography AND (3)
GEOL-102L Oceanography Laboratory (1)
Choose one course from the following:
ASTR-101A General Astronomy of the Solar System AND 3
ASTR-102 General Astronomy Laboratory 1
OR
ASTR-101B General Astronomy Beyond the Solar System AND (3)
ASTR-102 General Astronomy Laboratory (1)

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PHYSICS: ADVANCED

This certificate provides students with a solid physical and mathematical foundation of the general principles and theorems of physics, as well as experience with measurements of important physical quantities in the fields of mechanics, electricity and magnetism, optics and thermal physics.

Upon completion of this certificate students will be very well prepared to engage in continued and fundamental studies in the fields of engineering, physics, mathematical physics, or astronomy. The certificate also prepares students to work in various research institutions and companies as research assistant or on internships.

MATH-101C Calculus with Analytic Geometry 5
PHYS-140 Mechanics 4
PHYS-141 Electricity and Magnetism 4
PHYS-142 Optics, Heat, and Modern Physics 4

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PHYSICS: INTRODUCTORY

This certificate provides students with a solid foundation in the general principles of physics, as well as experience with a wide variety of mechanical and electrical measurement techniques. In addition, students will gain a deeper and concrete understanding of the properties of materials and matter in the solid, liquid, and gaseous state and of the experimental processes involved in the measurement and analysis of these properties.

This certificate presents students with material that forms the necessary basis for continued study in many fields of science, in particular the biosciences and the earth and environmental sciences. The certificate also prepares students for paraprofessional employment in the field of research internships with various city, county, state, and private agencies and various technician positions in the fields of electrical and environmental technology.

MATH-181 Trigonometry 3
PHS-135 Physical Science 4
PHYS-120 Introduction to Physics I 4
PHYS-121 Introduction to Physics II 4

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PIANO PERFORMANCE

The Music Department at Ohlone College has developed the Piano Performance Certificate to recognize the completion of acquired skills in the field of piano performance. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set of piano technique, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

Complete any four of the following piano courses:
MUS-160A* Beginning Class Piano 1
MUS-160B* Class Piano 1
MUS-160C* Class Piano 1
MUS-160D* Class Piano 1
MUS-160E* Piano Repertoire 1
MUS-160F* Piano Repertoire 1
Complete four semesters of the following course:
MUS-160L Performance Attendance Lab 0
Complete the following:
MUS-103 Fundamentals of Music 3

7

Students who passed Fundamentals of Music using credit by exam must select and complete one of the following options as a substitute.

MUS-100 Survey of the Arts AND 3
MUS-100L Performance Attendance Lab 0

MUS-101 Introduction to Music-Western Classical Music AND (3)
MUS-101L Performance Attendance Lab (0)

MUS-102 Music Appreciation AND (3)
MUS-102L Performance Attendance Lab (0)

MUS-125 History of Rock and Roll: Music and Culture Since the 1970’s (3)

*Students may test out of this course using credit by exam. Credit by exam can only be used to complete two out of the four required piano courses. At least two semesters of class piano must be completed in residence.

2007-2008 OHLONE COLLEGE CATALOG
REAL ESTATE SALES AGENT

Students may subsequently complete the Certificate of Completion in Real Estate Sales Broker Associate and the Certificate of Achievement in Real Estate Sales Broker. A person entering the real estate field in the State of California must qualify as a sales agent before practicing in sales, mortgage sales, or business sales.

RE-117 Computer Applications in Real Estate 3
RE-121 Real Estate Principles 3

Choose a minimum of two courses from the following:

BA-102A Principles of Economics-Macroeconomics 3
BA-102B Principles of Economics-Microeconomics 3
BA-106 Applied Accounting 3
RE-122 Real Estate Practice 3
RE-124 Legal Aspects of Real Estate OR 3
BA-141A Business Law (3)
RE-126 Real Estate Finance 3
RE-128 Real Estate Appraisal 3
RE-149 Real Estate Property Management 3

REAL ESTATE SALES BROKER ASSOCIATE

A person wishing to attain the status of a Real Estate Broker should progress by earning a certificate for the Real Estate Sales Broker Associate before completing the Real Estate Sales Broker Certificate of Achievement.

RE-122 Real Estate Practice 3
RE-124 Legal Aspects of Real Estate OR 3
BA-141A Business Law (3)
RE-126 Real Estate Finance 3

Choose a minimum of two courses from the following (minimum 6 units):

BA-102A Principles of Economics-Macroeconomics 3
BA-102B Principles of Economics-Microeconomics 3
BA-106 Applied Accounting 3
RE-128 Real Estate Appraisal 3
RE-149 Real Estate Property Management 3

SCULPTURE

The Sculpture Certificate of Completion signifies that students have received exposure to the contemporary forms of sculpture, glass design, casting, kiln work, sandblasting, lamination, and fabrication. This certificate provides a firm foundation in the field of art sculpture.

ART-105A Glass Art and Design 3
ART-116A Basic Sculpture 3
ART-116B Advanced Sculpture 3
ART-121A Introductory Ceramics I 3

SOCIOLOGY

This certificate will provide students with an academic foundation in the area of sociology.

SOC-101 Introduction to Sociology 3
SOC-102 Social Problems of a Diverse Society 3
SOC-105 Marriage and Family 3

Choose two courses from the following:

ANTH-102 Cultural Anthropology (3)
PS-103 International Relations (3)
PSY-101 General Psychology (3)
PSY-108 A Survey of Human Development (3)

SPEECH AND COMMUNICATION STUDIES

This certificate provides students with competent communication skills used in both academic and professional settings.

SPCH-101 Introduction to Public Speaking 3
SPCH-110A1 - A3 Forensics Workshop OR 1-3
SPCH-112A1 - A3 Argumentation and Debate Workshop (1-3)

Choose two courses from the following:

SPCH-102 Critical Thinking/Group Decision Making OR 3
SPCH-104 Critical Thinking/Persuasion OR (3)
SPCH-106 Critical Thinking/Argumentation and Debate (3)
SPCH-103 Interpersonal Communication 3
SPCH-105 Intercultural Communication 3
SPCH/BA-115 Career Communication 3
SPCH-122 Family Communication 3
SPCH/TD-130 Oral Interpretation of Literature 3
SPCH/TD-132 Voice and Diction 3

SQL DATABASE ADMINISTRATOR

The skills learned in this program are for individuals who derive physical database designs, develop logical data models, create physical databases, configure and manage security, monitor and optimize databases, and install and configure SQL Server.

CNET-162A Microsoft Server Operating Systems 2
CNET-162B Windows Network Infrastructure Administration 2
CNET-168A Network Application Administration II-Database (SQL) 2
CS-104A Visual Basic.NET Programming 4
CS-104B Advanced Visual Basic.NET Programming 4
CNET-168B Designing and Implementing SQL 2000 2
STAGE CRAFT
This certificate signifies that students have mastered the basic skills of stagecraft and television production and have a solid basis for future study in scenic design.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-155A</td>
<td>Architectural Drafting for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>TD-150</td>
<td>Technical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TD-153</td>
<td>Scenic Painting</td>
<td>3</td>
</tr>
<tr>
<td>TD-161-164</td>
<td>Stagecraft Lab</td>
<td>1-4</td>
</tr>
<tr>
<td>TD-170</td>
<td>Survey of Entertainment Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>13-16</strong></td>
</tr>
</tbody>
</table>

TAP DANCE TEACHER/CHOREOGRAPHER
The student will focus on teaching styles and choreography. Each student will have the opportunity to mentor with a dance faculty and learn various teaching styles. The student will also learn theatre technology and lighting design. This will enhance the student’s ability to communicate with theatre technicians in the field and provide for a better expression of choreography.

This certificate signifies that the student has competent teaching skills and has adequate experience in theatrical stage craft and lighting design necessary to communicate expressed choreography in the professional theatrical field.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TD-121C</td>
<td>Dance Rehearsal and Performance</td>
<td>4</td>
</tr>
<tr>
<td>TD-121L</td>
<td>Dance Rehearsal and Performance Lab</td>
<td>0</td>
</tr>
<tr>
<td>TD-143A</td>
<td>Introduction to Tap AND</td>
<td>2</td>
</tr>
<tr>
<td>TD-143B</td>
<td>Intermediate Tap AND</td>
<td>2</td>
</tr>
<tr>
<td>TD-143C</td>
<td>Advanced Tap Dance OR</td>
<td>2</td>
</tr>
<tr>
<td>TD-143B</td>
<td>Intermediate Tap (taken twice) AND</td>
<td>2</td>
</tr>
<tr>
<td>TD-143C</td>
<td>Advanced Tap Dance</td>
<td>2</td>
</tr>
<tr>
<td>TD-160L</td>
<td>Production Lab</td>
<td>0</td>
</tr>
<tr>
<td>TD-149</td>
<td>Choreography for Production</td>
<td>2</td>
</tr>
<tr>
<td>TD-152</td>
<td>Introduction to Lighting</td>
<td>3</td>
</tr>
<tr>
<td>TD-161</td>
<td>Stagecraft Lab (Theatre, Television, Dance)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

THEATRICAL AND TV LIGHTING TECHNICIAN
This certificate signifies that students have mastered the basic skills of lighting and production for the stage and television. Successful completion of this certificate will provide a solid basis for future study in lighting design.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TD-152</td>
<td>Introduction to Lighting</td>
<td>3</td>
</tr>
<tr>
<td>TD-160A-160A2</td>
<td>Production Lab</td>
<td>.5-2</td>
</tr>
<tr>
<td>TD-170</td>
<td>Survey of Entertainment Design</td>
<td>3</td>
</tr>
<tr>
<td>TD-171</td>
<td>3D Entertainment Design for Lighting</td>
<td>3</td>
</tr>
<tr>
<td>TD/BRDC-180</td>
<td>Television Series Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12.5-14</strong></td>
</tr>
</tbody>
</table>

3D MODELING AND ANIMATION
This certificate provides students with technical and aesthetic skills needed for animation and 3D modeling.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM-102A</td>
<td>Multimedia I</td>
<td>4</td>
</tr>
<tr>
<td>MM-115</td>
<td>3D Animation</td>
<td>3</td>
</tr>
<tr>
<td>MM-116</td>
<td>3D Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MM-117</td>
<td>Advanced 3D Modeling and Animation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

VB PROGRAMMING
This certificate prepares students with an introduction to office and Visual Basic.NET programming skills.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-101L</td>
<td>Computer Applications</td>
<td>2</td>
</tr>
<tr>
<td>CS-104A</td>
<td>Visual Basic.NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

VIDEO GAME DEVELOPMENT
This certificate prepares students with artistic and technical skills for entry-level positions in the game Software Development industry, with emphasis on the following roles: Game and Interactive Software Tester, Game Artist, Game Designer.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM-114</td>
<td>Textures for 3D</td>
<td>3</td>
</tr>
<tr>
<td>MM-115</td>
<td>3D Animation</td>
<td>3</td>
</tr>
<tr>
<td>MM-116</td>
<td>3D Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MM-118</td>
<td>Introduction to Video Game Design</td>
<td>2</td>
</tr>
<tr>
<td>MM-119</td>
<td>Video Game Development (must be completed twice)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>
VOCAL MUSIC PERFORMANCE

The Music Department at Ohlone College has developed the Vocal Performance Certificate to recognize the completion of acquired skills in the field of vocal performance. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set of vocal technique, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

MUS-103 Fundamentals of Music 3
*MUS-162A Class Voice-Beginning 1
MUS-162B Class Voice-Beginning 1
MUS-162C Class Voice-Beginning 2
MUS-162D Class Voice-Intermediate 2
MUS-166A Applied Music 1
MUS-166B Applied Music 1
**MUS-356, 367, 368, or 394 Choral Ensembles 3

*Students may test out of Fundamentals by passing an exam.
**Students must take 3 classes for a total of 3 units.

VOCAL MUSIC PERFORMANCE: ADVANCED

The Music Department at Ohlone College has developed the Advanced Vocal Performance Certificate to recognize the completion of acquired skills in the field of advanced vocal performance. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set of vocal technique, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

MUS-160A Beginning Class Piano 1
MUS-162E Vocal Repertoire 2
MUS-162F Vocal Repertoire 2
MUS-166C Applied Music 1
MUS-166D Applied Music 1
*MUS-356, 367, 368, or 394 Choral Ensembles 3

*Take 3 classes for a total of 3 units.

WEB CONTENT

This is the third of three Web Certificates, which together prepare students for a broad and specific readiness in dynamic Web technology, from administration to development and interface. Web Content specializes on the user interface aspect of the Web.

CS-162 XHTML 4
CS-178 XML 3

Choose 9-10 units from the following courses: 9-10
MM-102A Multimedia I (4)
CS-175 Script Technology for Web Development (4)
CS-179 Dynamic Web with ColdFusion (3)
MM-103A Introduction to Flash: Animation AND (.5)
MM-103B Intermediate Flash: Interactivity (.5)

WEB DELIVERY

This is the second of three Web Certificates, which together prepare students for a broad and specific readiness in dynamic Web technology, from administration to development and interface. Web Delivery specializes on programming languages currently driving the data on the Web.

Choose 16 units from the following courses:

CS-104A Visual Basic.NET Programming 4
CS-104B Advanced Visual Basic.NET Programming 4
CS-104C ASP.NET Programming 4
CS-121 Applied Programming in Visual C++ 4
CS-122 C#.NET Programming 4
CS-149 PERL Programming 4
CS-170 Java Programming 4
CS-171 Advanced Java Programming 4
CS-172 Servlets and JSP 4
CS-176 CGI Programming with PERL for Web Development 3

WEB INFRASTRUCTURE

This is the first of three Web Certificates, which together prepare students for a broad and specific readiness in dynamic Web technology, from administration to development and interface. Web Infrastructure specializes on Web server administration, the backbone of the Web.

Choose 5-8 units from the following courses: 3-4
CS-104D Web Services for .NET (4)
CNET-137 Introduction to SQL Programming (4)
CNET-157 TCP/IP and Internetworking (3)

16-17
WEB PAGE DESIGN

Upon completion of the Web Page Design Certificate students will have developed and designed Web sites.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM-102A</td>
<td>Multimedia I</td>
<td>4</td>
</tr>
<tr>
<td>MM-104</td>
<td>Advanced Interactivity in Flash</td>
<td>3</td>
</tr>
<tr>
<td>MM-105</td>
<td>Web Site Design</td>
<td>4</td>
</tr>
<tr>
<td>MM-162</td>
<td>XHTML</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

WINDOWS MCSA

Upon completion of this program students will be prepared for Microsoft certifications as an MCSA (Microsoft Certified Systems Administrator). The MCSA credential certifies that students have the skills to successfully implement, manage, and troubleshoot the ongoing needs of Microsoft Windows 2000-based operating environments, including Windows.NET Server. An MCSA candidate should have six to twelve months of experience working with a desktop operating system, a network operating system, and an existing network infrastructure. MCSA candidates are required to pass three core exams and one elective exam. Following are the sequence of Ohlone courses that will prepare students for certification and identify the core and elective Microsoft exams that will lead to certification:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162A</td>
<td>Microsoft Server Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162B</td>
<td>Windows Network Infrastructure Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

Choose one course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-165B</td>
<td>Microsoft Internet Security and Acceleration Server (ISA)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Network Application Administration I-Email (Exchange 2003)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-168A</td>
<td>Network Application Administration II-Database (SQL)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units: 15

WORK READINESS

Many Deaf students are interested in coming to Ohlone to gain the necessary skills for entry-level employment. For those students with limited academic skills, Ohlone offers a 3-semester work-study Certificate of Completion. At the completion of these courses students will be awarded a Certificate of Completion, along with a positive letter of reference for their employer.

First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-140A</td>
<td>Lifeskills Mathematics I</td>
<td>2</td>
</tr>
<tr>
<td>DEAF-141A</td>
<td>Workplace Communication I</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-143</td>
<td>Deaf Vocational Awareness</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7</td>
</tr>
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</table>

Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-140B</td>
<td>Lifeskills Mathematics II</td>
<td>2</td>
</tr>
<tr>
<td>DEAF-141B</td>
<td>Workplace Communication II</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-146</td>
<td>Work Experience Seminar</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7</td>
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</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-145B</td>
<td>Job Seeking Strategies for Deaf Students</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 17
Ohlone College has, in addition to college transfer courses, programs which meet the needs of the local community in vocational, technical, and career areas. To assist the College in determining the needs of the various facets of the community, representatives of business, the professions, labor and industry, are invited to participate in curriculum planning.

**ACCOUNTING**

Terrie Dickson  
Computer Scientist Math Programmer, Lawrence Livermore National Lab

Shelley Hansen  
Accountants On Call

Ronald Hanson  
Hanson & Associates

Amy Inderbitzen  
Computer Accounting Specialist, Accurate Tax Service

J. Mauricio Najarro  
Accounting Faculty, Ohlone College

De-Hwei O'Shaughnessy  
Alumni, Ohlone College

Vern Piumarta  
Accounting Faculty, Ohlone College

Patty Powers  
Account Representative, Accountants On Call

Ed Robinson  
CPA, Edward Robinson, Certified Public Accountants

Carolyn Strickler  
Accounting Faculty, Ohlone College

Gary Yamashita  
Senior Analyst, Chevron Corporation

Lloyd Yarbrough  
Controller, AKON

**ADMINISTRATION OF JUSTICE**

Timothy Anderson  
Chief of Police, East Bay Regional Park Police

Richard Cominos, Sr.  
Administration of Justice Faculty, Ohlone College

Gary Gee  
Chief of Police, BART Police Department

Richard Keller  
Superior Court Judge, Alameda County

Richard Klemmer  
Assistant District Attorney, Alameda County

Greg Murphy  
California Department of Justice, POST Representative

Steven M. Osawa  
Chief, Safety and Security, Ohlone College

Charles Plummer  
Sheriff, Alameda County Sheriff’s Department

George Rodgers  
Anthropology/Geography/Geology Faculty, Ohlone College

Dave Rossetto  
Commander, Milpitas Police Department

Ray Samuels  
Chief of Police, Newark Police Department

**ALLIED HEALTH**

Mikelyn Stacey  
Dean, Humanities, Social Sciences, and Mathematics; Ohlone College

Craig Steckler  
Chief of Police, City of Fremont

Randy Ulibarri  
Chief of Police, City of Union City

Robert Wasserman  
Mayor, City of Fremont; Retired Chief of Police, City of Fremont

Pauline Weaver  
Deputy Public Defender, Alameda County

Dr. Patricia Zajac  
Professor and Chair of Criminal Justice Department; California State University, East Bay

**Rudee Aguilar**  
Lab Supervisor, Washington Hospital

**Traleta Bradford**  
Phlebotomy Instructor, Ohlone College

**Salim Rafidi, CLS**  
Phlebotomy Program Director, Ohlone College

**Joann Wood, CLS**  
Lab Supervisor (Retired)
BIOTECHNOLOGY

Dr. Mark Barnby  
Biology Faculty, Ohlone College

Holly J. Clark  
Scientist, Metabolex

Clay Colvin  
Economic Development Manager, City of Newark

Kevin Corcoran  
VP Technology, Applied Biosystems

Christine Friday  
Economic Development Coordinator, City of Union City

Paige Lloyd  
Education Relations, Genentech

Ed Louie  
Production Director, Genitope Corporation

Ravi Mistry  
Senior Director, DiscoverX

Tim Morken  
Director, Product Development Lab Vision Neomarkers

Dr. Ken Olson  
Scientist, Inamed

Sally Porfido  
Economic Development Manager, City of Hayward

Dr. Ron Quinta  
Dean, Science, Technology, and Academic Affairs; Ohlone College

Connii Randall-Fuller  
HR Director, Cell Genesys

Dr. Jim Ryland  
Director, Biologics Process Development

Robert Sakai  
Technology & Trade Director, Economic Development Alliance for Business (EDAB)

Frances Stack  
Training Manager, Amgen

Lori Taylor  
Economic Development Manager, City of Fremont

BROADCASTING (TELEVISION)

Tony Bonilla  
Assistant News Director, KTVU TV

Belva Davis  
News Anchor, KRON TV

Peggy Geary  
Motion Picture Continuity Supervisor

Sam Goldman  
Sports Information Officer, San Francisco State University

Paul Hammons  
News Graphics Supervisor, Fordham University

Gary Kauf  
Director, Television Operations; Ohlone College

Drake Silliman  
AVID Editor, TV Movies

BUSINESS SUPERVISION/MANAGEMENT

Helmut Buehler  
Group Marketing Manager, Sun Microsystems

Amber Hatter  
Look Realty

Robert Lum  
Technical Training and Publication Services

Bob Parks  
Fricker-Parks Press

David Patrick  
Adjunct Faculty, Ohlone College

Evan Piercy  
Project Management, Sun Microsystems

Carl Smith  
Brokerage Firm

Nancy Smith  
BenefitNation, Inc.

Elisa Webb  
Industry Consultant; Adjunct Faculty, Ohlone College

Paula White  
Industry Consultant; American Cancer Society

BROADCASTING (RADIO)

Bob Dochterman  
Director, Radio Operations; Ohlone College

Gerry Dove  
Assistant Promotion Manager, KISQ Radio

Lisa Fox  
Air Personality, KYSR Radio

Robert Sean King  
Director of Internet Services, Clear Channel Broadcasting

Michael Martinez  
Music Director, KEZK Radio

Mark Pape  
Reporter/Anchor, Metro Networks

Dave Shakes  
President, Shakes Radio Consulting

Michael Stockwell  
Chief Engineer, KEZK Radio

Lisa St. Regis-Sturges  
Air Personality, Music Director, KISQ Radio

Rob Williams  
Syndicated Morning Personality, KISW, Entercom Radio

COMPUTER APPLICATIONS AND OCCUPATIONAL TECHNOLOGY

Karen Ambus  
Executive Assistant, Hitachi Data Systems

Helmut Buehler  
Group Marketing Manager, Sun Microsystems

C.E. Kitty Cecil-Hunter  
Mission Valley ROP

Amber Hatter  
Look Realty

Robert Lum  
CEO, Lum Enterprises

Bill Parks  
Fricker-Press

David Patrick  
Adjunct Faculty, Ohlone College

Evan Piercy  
Project Management, Sun Microsystems

DEAF STUDIES

Claire Ellis  
Deaf Preparatory Program Faculty, Ohlone College

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Deaf Studies/ASL Faculty, Ohlone College

Joe McLaughlin  
Deaf, Deaf Studies and Special Services, Ohlone College

Steve Orman  
Career Counselor, California School for the Deaf

Liam Osborne  
Department of Rehabilitation

Kay Thiburth  
Fremont Employment Development Department

DISABLED STUDENTS PROGRAM AND SERVICES

Martha Brown  
Dean, Counseling, Ohlone College
ADVISORY COMMITTEES

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Janey Shephard
Deborah Stark
Catherine Rice
Maria Ramirez
Sharon Pearce
Fred Hile
Kevin Kirk
Nora Schonecker
Cybele Walsh

EARLY CHILDHOOD STUDIES

John Bernard
Tess Buenaventura
John Chavez
Janice Fontenot
Katy Fox
Dr. Janice Jones
Gerry Low-Sabado
Michele McDowell
Paul Miller
Rosemarie Obeid
Barbara Ogman
Jim O’Laughlin
Sharon Pearce
Maria Ramirez
Catherine Rice
Deborah Stark
Janey Shephard
Jeneane Stevens
Mikelyn Stacey
Susan Story

Beverly Taub
Dr. James E. Wright

EXTENDED OPPORTUNITY PROGRAMS AND SERVICES

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Rawnie Clements
Dericka Hayes
Jason Jones
Amy Lee
May Lee
Marybeth McCarthy
Jim Mehner
Chitvan Nayar
Mary Lynn Pelican
Kristine Peraza
Cruz Ramos
Anita Rees
Susanne Shenfield
Jan Vincent
Dr. Kenn Waters

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Robert J. Cordano, J.D.
Cathy Corrado
Kim Corwin
Sheryl Emery
Sandra Fisher
Marybeth Flachbart

Joan M. Forney
Claudia Gordon, J.D.
Cheryl DeConde Johnson
Mei Kennedy
Nancy Mosher
Annette Reichmann
Ralph Sedano
Lauren Tereul
Debra Zand

GRAPHIC ARTS

Bunny Carter
David Chai
John Clapp
Tatiana Deogirikar
Gus Fjelstrom
Rebecca Fogg
Courtney Graner
Michael Henninger
Dave Hopkins
Pilar Lewis
Cynthia Luckowski
Joe Miller
Paul Mueller
James Pacheco
Elizabeth Shrank-Yapp
Alvin Thompson

2007-2008 OHLONE COLLEGE CATALOG
INTERIOR DESIGN

Toni Berry
IFDA; Marie Antoinette Custom Home Interiors

E. Tom Harland
Art Faculty, Retired, Ohlone College

Jill Hornbeck
Designer

Peter Jacobsohn
A.I.A.; Architect

Sharon D. Kasser
ASID

Marge Ling
CKD; CBD; Custom Kitchen Bath Center

Joan Long
IFDA; Certified Interior Designer

Mark Nelson
Theatre Arts Faculty, Ohlone College

Denise Owen
Art Faculty, Ohlone College

Barbara Rogers
Designer

Teresa Sladowska
Designer

Brenda Visas
Move Process Manager, Morrison Knudsen Corporation

Gus Vouchilas
ASID

Jackie Wise
Designer

Nancy Wolford
Interior Designer, Designer Education

MULTIMEDIA

Diana Bennett
Multimedia Instructor, College of San Mateo

Justin Everett-Church
Technical Yahoo! IMVironments

Diane Fenster
Digital Photographer and Photo Illustrator

Carlos Goulart
Designer, Advertising Art & Design

Michael Henninger
Professor, Art Department and Multimedia Graduate Program, California State University, East Bay

Pilar Lewis
Multimedia Faculty, Ohlone College

Cynthia Luckoski
Graphic Arts Faculty, Ohlone College

Derek Wilson
Assistant Professor, Multimedia Studies, College of Marin

REAL ESTATE

Lida Alegre
Alumni, Ohlone College

Rick Arellano
Real Estate Faculty, Ohlone College

Felicitia Ballesteros
Agent, Prudential Realty

Anthony Contreras
Former Student, Ohlone College

Hilda Furtado
Manager, Prudential Realty

Amber Hatter
Broker, Look Realty

Felton Jackson
Appraiser, Jackson Appraisals

Gordon Munoz
Former Student, Ohlone College

Yuki Nakanishi
Agent, Residential Pacific Mortgage

Jerry Prosch
Former Student, Ohlone College

Bertha Roman
Former Student, Ohlone College

Miguel Velazco
Agent, Remax Executive

INTERPRETER PREPARATION

Sarah Mugnolo Brannigan
IPP Graduate, RID Certificate

Jim Brune
Interim Chief Executive Officer, Deaf Counseling, Advocacy and Referral Agency

Karen Carruthers
Chair, ASL Department, Vista Community College

Catherin Dubois
Interpreter Coordinator, Laney College

Nancy Frischberg
Author/Consultant

Nancy Grosz Sager
Deaf and Hard of Hearing Programs Consultant; State Special Schools Division; California Department of Education

Dr. Tom Holcomb
Deaf Studies/ASL Faculty, Ohlone College

Sandra Kopping
ASL Faculty, Ohlone College

Dan Langholz
Certified Deaf Interpreter

Shelley Lawrence
Interpreter Preparation Program Faculty, Ohlone College

Patty Lessard
Interpreter, Ohlone College

Steve McClelland
Bay Area Communication Access

Joe McLaughlin
Dean, Deaf Studies and Special Services, Ohlone College

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Interpreter, Ohlone College

Steve McClelland
Bay Area Communication Access

Joe McLaughlin
Dean, Deaf Studies and Special Services, Ohlone College

PHYSICAL THERAPIST

Dr. Don Chu, PT
PTA Adjunct Faculty, Ohlone College

Sheryl Einfeld, MPT
PTA Program Director, Ohlone College

Dr. Michael Krinsky
Orthopedic Surgeon

Carol Morodomi, MPT
PTA Program ACCE, Ohlone College

Dina Schnellinger, P.T.
Physical Therapist

Barbara Schoeffel, M.P.T.
Owner, Purple Iris Healing Center

Matt Silva, P.T.A.
NovaCare Rehabilitation

Trudy Silva, P.T.
Redwood Orthopedic PT

Rodney Silveira, M.S., P.T.
Owner, Neuro Sport Rehabilitation Associates

Leta Stagnaro, M.S., P.T.A.
Associate Vice President, Newark Center for Health Sciences and Technology, Ohlone College

Jill Swerening, P.T., L. Ac.
Owner, Purple Iris Healing Center

Kathy Utchen, P.T.A.
PTA Adjunct Faculty, Ohlone College

Chris Warden, ATC
Athletic Trainer, Ohlone College

RESPIRATORY THERAPIST

Brandy Burrows
Manager, Respiratory Therapy Department, Alameda County Medical Center

Carol Couper
Director, Respiratory Therapy Department, Regional Medical Center of San Jose

REGISTERED NURSE

Gale Carli, RN, MSN
Assistant Director, Nursing, Ohlone College

Martha Giglieman, RN
Director of Patient Care Services, Washington Hospital Healthcare System

Kimberly Hartz-Foster
Director of Strategic Planning, Washington Hospital Healthcare System

Bindu Israni, RN
Kaiser Fremont Medical Center

Jessica Jordan, MS, RN
Vice President, Medical-Surgical Nursing, Valley Care Health Systems

Fran Korbawni, RN
Kaiser Fremont Medical Center

Sherry Madsen, RN, BSN
Director, Medical-Surgical, Valley Care Health Systems

Rosa Romero, RN
Senior Director, Nursing, Washington Hospital Healthcare System

Judith Tahada, RN
Education Coordinator, Kaiser Permanente Medical Center

Mary Wheaton, RN, MSN
Education Coordinator, St. Rose Hospital

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2007-2008 OHLONE COLLEGE CATALOG
SMITH CENTER COMMUNITY ADVISORY BOARD

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Dean, Fine Arts, Business, and Broadcasting; Ohlone College

Christopher Booras  
Director, Theatre Operations, Ohlone College

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Community Leader

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Board Member, LOV

Fred Cutter  
Community Leader, Arts Patron

Nancy Cutter  
Community Leader, Arts Patron

Michael Damer  
Community Relations, NUMMI

B. Douglas Hill  
Community Arts Patron

Irene Jordahl  
Arts Coordinator, City of Fremont

Fred Jueneman  
Newark Arts Council

Lisa Lorenz  
Community Leader

Elaine Nagel  
Retired, Ohlone College

Nick Nardolillo  
Board of Trustees, Ohlone College

Mark Nelson  
Theatre Arts Faculty, Ohlone College

Shirley Sisk  
Community Leader, LOV Newark

Margaret Stainer  
Art Faculty, Art Gallery Director, Ohlone College

Lori Stokes  
Star Struck Theatre

WOMEN IN ENGINEERING

Theresa Bradshaw  
Hardware Engineer, Radia Communications

Peggy Claesen, P.E.  
Associate Civil Engineer, City of Fremont

Miranda Cummings  
Civil Engineer, City of Fremont

Claire DeLucchi  
Consultant

Julie Lassig  
Program Specialist

Linda Messia  
Math Faculty, Ohlone College

Gary Mishra  
Engineering Faculty, Ohlone College

Dr. Ron Quinta  
Dean, Science, Technology, and Academic Affairs; Ohlone College

Felicia Saiez  
President, Global Institute for Technology & Engineering (GITE)

Lisa Stambaugh  
Independent Contractor
HOW TO READ COURSE DESCRIPTIONS

Every course description includes the course name (the abbreviation of the department followed by the course number, e.g. ENGL-101A) and the course title. There is also the number of units earned upon successful completion of the course as well as the means by which the units are earned, either through a lecture, laboratory, or combination lecture/laboratory experience. Course prerequisites, corequisites, and advisories are identified, as applicable. If the course is cross-referenced to an identical course in another department, then that information will be indicated and will allow students the option of determining within which department they choose to apply their credit. The Accepted for Credit tag indicates if the course will transfer to either or both the University of California (UC) and California State University (CSU) systems. The course description gives a summary view of the course content and indicates if a course may be repeated for credit and what grading policies apply to the course. Courses that have an approved California Articulation Number (CAN) or an approved TCSU number will have that CAN or TCSU number identified at the end of the course description.

COURSE REQUISITES

“Prerequisite” means a condition of enrollment that a student is expected to meet in order to demonstrate current readiness for enrollment in a course or educational program.

“Corequisite” means a condition of enrollment consisting of a course that a student is expected to take simultaneously in order to enroll in another course.

“Advisory” means a condition of enrollment that a student is advised to meet before or in conjunction with enrollment in a course or educational program.

Students have the right to challenge the prerequisite or corequisite for any one of the following reasons:

1. The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite (student documentation required).

2. The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available.

3. The prerequisite or corequisite has not been established in accordance with the District’s process of establishing prerequisites and corequisites (regulations and District approved processes are available in the Office of the Vice President, Academic Affairs/Deputy Superintendent).

4. The student believes the prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawful discriminatory manner.

Written documentation to substantiate the challenge must be provided. Challenge petitions can be obtained from the Counseling Department.
## Accepted for Credit

Units earned will be accepted in transfer at CSU and/or UC. Students should see a counselor or go to http://www.assist.org to determine if the units satisfy general education, major, or elective requirements at a specific CSU or UC campus.

## Course Grading Policy

- **CR** – Course offered for credit/no credit only
- **GC** – Course offered with student given the option to enroll for credit/no credit or for a standard grade
- **GR** – Course offered for letter grade only
- **NG** – Course has no grade, no credit

## Articulation Numbering Systems: CAN and TCSU

The California Articulation Number (CAN) System is a statewide numbering system independent from course numbers assigned by local colleges. A CAN number signals that participating California colleges and universities have determined that courses offered by other campuses are equivalent in content and scope to courses offered on their own campuses, regardless of their unique titles or local identifying numbers. Thus, if a Class Schedule or Catalog lists a course bearing a CAN number, students on one campus can be assured that it will be accepted in lieu of the comparable CAN course noted in the catalog or schedule of classes of another campus. For example, CAN ECON 2 on one campus will be accepted as meeting the requirement of the designated CAN ECON 2 course on other participating community college or university campuses.

### Ohlone Courses Articulated Through CAN

<table>
<thead>
<tr>
<th>CAN Course</th>
<th>Ohlone Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 2</td>
<td>AJ-101</td>
</tr>
<tr>
<td>AJ 4</td>
<td>AJ-102</td>
</tr>
<tr>
<td>AJ 6</td>
<td>AJ-104</td>
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<td>ANTH-102</td>
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<tr>
<td>ANTH 6</td>
<td>ANTH-103</td>
</tr>
<tr>
<td>ART 2</td>
<td>ART-103A</td>
</tr>
<tr>
<td>ART 4</td>
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### Ohlone Courses Articulated Through TCSU

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<td>TCSU SOC 120</td>
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The CAN numbering system is obviously useful for students attending more than one community college and is applied to many of the transferable, lower division courses students need as preparation for an intended major. However, the CAN system is being phased out. As courses are identified as meeting the CSUs new Lower Division Transfer Pattern (LDTP) for majors, course descriptors are created and assigned a TCSU number. Community college courses that are approved as equivalent will be assigned a TCSU number to indicate that the course can be applied to meet lower division preparation for a specific CSU major. Articulation based on CAN will continue to be honored until replaced by a TCSU course or until CAN expires in 2009. Students should always check with their campus counselors, articulation officer, or the transfer center to determine how CAN-designated courses fit into their educational plans for transfer. Students should consult the ASSIST database at http://www.assist.org for specific information on course agreements. The Ohlone College staff can help students interpret this information.

MULTI-DEPARTMENTAL COURSES

Selected Topics (210, 211, 212, 213, 214, 215)

These courses are designed to offer instruction in topics of current concern in any of the instructional disciplines. The topics selected will be related to existing subject fields, but not necessarily offered within the regular catalog courses. Selected topics are offered by most disciplines and are identified by the number 210 for 1/2 unit courses, 211 for 1 unit courses, 212 for 2 unit courses, 213 for 3 unit courses, 214 for 4-unit courses, and 215 for 5-unit courses. The maximum number of units from Selected Topics which may be applied to toward the associate degree is 8 units.

Special Projects (201, 202, 203)

This program is designed for students who wish to undertake an individual study or to complete research related to a particular field. In compliance with state regulations, Special Projects courses are available for 1, 2, or 3 units. These courses are identifiable by the number 201 for 1 unit, 202 for 2 units, and 203 for 3 units. The maximum number of units which can be earned, at any time, in any combination of special projects is 7 units. A Special Projects Authorization Form must be completed and submitted to Admissions and Records in order to register for a Special Projects course.

ACADEMIC DIVISION INFORMATION

There are seven academic divisions at Ohlone including Counseling; Deaf Studies and Special Services; Fine Arts, Business, and Broadcasting; Health Sciences and Academic Affairs; Humanities, Social Sciences, and Mathematics; Learning Resources and Academic Technology; and Science, Technology, and Academic Affairs. Following are the departments contained within each academic division and the contact information for each division:

Division: Counseling
Department: Personal Development (PD)
Dean: Martha Brown
Executive Assistant: Susan Steffen
Location: Room 11028
Phone number: (510) 659-6037

Division: Fine Arts, Business, and Broadcasting
Departments: Air Force (AF), Art (ART), Broadcasting (BRDC), Business Administration (BA), Business Supervision/Management (BSM), Graphic Arts (GA), Interior Design (ID), Interdisciplinary Studies (IS), Journalism (JOUR), Multimedia (MM), Music (MUS), Real Estate (RE), Theatre and Dance (TD)
Dean: Walter Birkedahl
Executive Assistant: Bonnie Feltrop
Location: Smith Center, Room 147
Phone number: (510) 659-6216

Division: Health Sciences and Academic Affairs
Departments: Allied Health (AH), Consumer Family Sciences (CFS), Health (HLTH), Nursing (NUR), Physical Therapist Assistant (PTA), Respiratory Therapy (RT)
Dean: Vacant
Executive Assistant: JoAnne Serran
Executive Assistant: Zelma Hunter
Location: Building 25
Phone number: (510) 659-6030

Division: Humanities, Social Sciences, and Mathematics
Departments: Administration of Justice (AJ), Arabic (ARAB), Chicano Studies (CHS), Chinese (CHIN), Early Childhood Studies (ECS), Education (EDUC), English (ENGL), English as a Second Language (ESL), French (FREN), History (HIST), Italian (ITAL), Japanese (JPNS), Mathematics (MATH), Philosophy (PHIL), Political Science (PS), Psychology (PSY), Sociology (SOC), Spanish (SPAN), Speech (SPCH), Tagalog (TAG), Women’s Studies (WS)
Dean: Mikelyn Stacey
Executive Assistant: Kathleen Martinez
Location: Hyman Hall, Room 222
Phone number: (510) 659-6173
Executive Assistant: Sila Marques
Location: Room TBA
Phone number: (510) 659-6080

Division: Learning Resources and Academic Technology
Department: Library Science (LS)
Dean: Vacant
Library Technician: Linda Dickerman
Location: Room 1318
Phone number: (510) 659-6167

Division: Science, Technology, and Academic Affairs
Departments: Anthropology (ANTH), Astronomy (ASTR), Biology (BIOL), Biotechnology (BIOT), Chemistry (CHEM), Computer Applications and Occupational Technology (CAOT), Computers, Networks, and Emerging Technology (CNET), Computer Science (CS), Engineering (ENGI), Geography (GEOG), Geology (GEOG), Physical Sciences (PHS), Physics (PHYS)
Dean: Ron Quinta
Executive Assistant: Irene Benavidez
Phone number: (510) 659-6191
Executive Assistant: Sila Marques
Location: Room TBA
Phone number: (510) 659-6080

Department: Athletics
Department: Athletics (ATHL), Kinesiology (KIN), Physical Education (PE)
Athletic Director: Chris Warden
Executive Assistant: Megan Parker
Location: Room 9303
Phone number: (510) 659-6044

2007-2008 OHLONE COLLEGE CATALOG
STUDENT LEARNING OUTCOMES
BY DISCIPLINE/PROGRAM

As a result of having taken a set of courses in a specific discipline or program, students will acquire prescribed knowledge and skills. Disciplines and programs express these abilities as student learning outcomes—those things students will have learned upon successful completion of the specified set of courses. Following are the student learning outcomes specifying the educational goals of certain educational disciplines and programs, stated to address behavior students will acquire.

Administration of Justice
- Demonstrate an understanding of the workings of the criminal justice system by applying definitions, concepts, and principles to law enforcement, courts and correctional settings.
- Apply appropriate investigative and forensic techniques to analyzing crime scenes, collecting and preserving evidence, and preparing evidence and testimony for laboratory analysis and prosecution, by applying such techniques to mock crime scenes.
- Demonstrate suitable mastery of perishable physical skills applicable to law enforcement in a safe and proficient manner.
- Demonstrate an understanding of criminal psychology by historical events such as serial analyzing of killers, victims, and psychological and sociological theories.
- Demonstrate an appreciation for the role of police within society by participating in role-playing scenarios involving police and community interactions and other means of developing interpersonal skills.

Art
- Demonstrate the skills to undertake a conceptual analysis of art.
- Demonstrate observational skills.
- Understand and apply concepts and methods of composition.
- Demonstrate knowledge of significant examples of the visual arts.
- Be prepared for ensuing courses of Art History and Studio Arts.
- Demonstrate sensitivity to the art of both the European and non-western cultures.
- Reproduce and/or render what the student sees in a variety of media.
- Design and plan finished works of art, (i.e. paintings, models, drawings, computer graphics, advertisements, floor plans).
- Explain and communicate basic objectives of design and/or plan of works of art.
- Create or manufacture finished works of art based on initial designs.

Athletics
- Be an effective team member.
- Work collaboratively with others on common goals.
- Value the connection between preparation for and execution of work.
- Demonstrate leadership within a team environment.
- Be self-disciplined in pursuit of personal and team goals.
- Make reliable and dependable contributions to a team.
- Display interpersonal competence in a diverse environment.
- Handle both victory and defeat with dignity.
- Achieve physical health and wellness.

Biology
- Demonstrate the correct operating procedures in the use of common lab equipment such as compound microscopes, spectrophotometer, pH meter, electrophoresis gel apparatus, micropipettes, and centrifuges.
- Construct, for analytical purposes, appropriate graphs from raw experimental data.
- List common laboratory safety guidelines.
- List and briefly explain the main concepts of modern evolutionary theory.

Allied Health
- Demonstrate competence in the use of standard laboratory equipment and in standard laboratory techniques.
- Describe how to safely conduct themselves in the laboratory. Students will be able to identify key features of data, analyze that data, and draw conclusions from that data.
- Compare and contrast information from diverse sources. Students will demonstrate the ability to organize information into different formats using table and graph interpretation skills. The students will demonstrate their understanding through essays that integrate facts and paraphrase concepts.
- Relate new concepts to previously learned information. Students will investigate their own learning styles and apply those to the comprehension of new facts and concepts.
- Work both in groups and individually to investigate information and present that information to fellow students. Students will illustrate both their knowledge of the topic and their ability to review and present that information to fellow students.
- Relate information learned to the appropriate situation in a health sciences setting.
Biotechnology

Biomanufacturing
- Develop a results-oriented resume highlighting transferable skills relevant to biomanufacturing positions.
- Demonstrate effective interviewing skills to obtain employment in the biotech industry.
- Understand and apply techniques to conduct a self-directed job search.
- Apply scientific method and good experimental design in scientific experiments.
- Understand and demonstrate lab safety procedures.
- Maintain a lab notebook; describe correct SOP’s, GLP’s, and other documentation required in a biotech lab.
- Demonstrate standard lab techniques such as pipetting and measurements (mass/volume).
- Demonstrate proper use of lab equipment such as pH meters, spectrophotometers, chromatographic systems, electrophoresis apparatus, compound microscope, and other equipment.

Broadcasting
- Demonstrate storytelling and reporting skills writing for news, short-form documentary, or commercial television production.
- Effectively use Windows-based and Mac-based non-linear editing software, audio software, and video manipulation programs.
- Demonstrate the vocational skills necessary to function successfully as a member of a broadcast television or film production team.
- Import and digitize video and arrange video sequences into a timeline and combine those sequences into a story, music video, or episodic television program.
- Conduct pre-production planning, develop story-boards, direct a live broadcast, direct and manage a television crew through the technical production of a program.
- Analyze and critique various lighting techniques, identify and operate a variety of studio and on-location lighting instruments, create and execute specific lighting designs.

Business Administration
- Demonstrate mastery of accounting procedures and practices.
- Evaluate the global economy and its impact on the U.S. economy.
- Demonstrate an understanding of and familiarity with the world of business and its related terminology.
- Analyze theories, principles, and policies of the United States economic system.
- Critically assess the relationship between the individual, business, and the global economy.
- Apply the methods of effective business communication.
- Describe the legal aspects of business operation.
- Consider the ethical and social responsibility issues affecting the current business environment.

Business Supervision and Management
- Access the qualifications needed for a supervisor, which will include the POEM (Plan, Organize, Execute and Measure work to be performed) and the three P’s of management. (Power, Position, and Politics) and discuss the analysis through constructive critique.
- Identify the use of effective and efficient leadership styles by analyzing the leader’s POEM strategy.
- Demonstrate the roles, responsibility, and expected results of people performing the supervisory/management and/or leadership roles in an organization by identifying the key concepts.
- Assess and analyze their own capabilities using real world case scenarios to gain an understanding of what is required to gain employment in this field.
- Identify the challenges and opportunities of being a manager in today’s high tech global economy.
- Demonstrate proficiency in using latest Project Management technology tools and software.
- Write papers in field of human resource management gauging the needs of a specific audience.
- Discuss good business ethics, social responsibility, and the vital role in the establishment of trust and honesty expected of supervisory/managers and leaders today.

Chemistry
- Interpret the fundamental principles of chemistry.
- Apply scientific principles to specific circumstances or problems.
- Apply math skills to solve scientific problems and/or situations.
- Construct program graphs from raw data.
- Analyze graphical representation of scientific data.
- Demonstrate correct laboratory techniques.
- Apply safety rules in the practice of laboratory investigations.
- Demonstrate proper protocols, SOP’s of common scientific equipment such as pH meter, voltmeter, and Spectrophotometer.
- Analyze data collected during laboratory investigations.
- Design and analyze a scientific experiment and recommend improvements.

Computer Applications and Occupational Technology
- Develop technical computer based skills needed to prepare documents, presentations, and spreadsheets using Microsoft’s Office Suite Software (including, Access, Word, Excel, PowerPoint, and Outlook).
- Compile written directions, lab project, and specific business documents for other co-workers.
- Use filing and schedule management skills to support management and supervisors.
- Type on a computer keyboard a minimum of 50 wpm.
- Demonstrate Internet skills including e-mail management, web research, and document exchange.
- Use Windows Explorer filing and other skills used to support data management and storage.
Think logically and critically to solve problems, explain conclusions, and evaluate evidence or critique the thinking of self and others.

- Identify, analyze, and document the requirement specifications for typical software projects and design techniques to create a solution to the problem.
- Apply software development techniques that use the correct syntax and semantics of a programming language to write the source code to implement and test/debug a specified design.
- Exhibit professional behavior and work habits, demonstrate the ability to work in teams, and effectively communicate project design.
- Demonstrate knowledge of fundamental computer science concepts in areas such as history of programming languages and computers, software design, operating systems, networks, information management systems, and professional and ethical responsibilities.
- Critically examine the basic concepts of computer organization and architecture, CPU, computer memory, I/O fundamentals, and machine language.
- Investigate functions, relations, sets, simple proof techniques, Boolean algebra, propositional logic, digital logic, elementary number theory, and the fundamentals of counting.
- Demonstrate ability to use Internet tools and network protocols to implement client/server applications.

Computers, Networks, and Emerging Technologies

- Demonstrate an appreciation of the IT career field and the need to be lifelong learners. Increase the ability to identify new learning requirements and to learn independently.
- Demonstrate oral and written communication skills and increase ability to be effective team members.
- Demonstrate attitudes that are beneficial to maintaining the security of a computer/network system and assisting people to use that system or network.
- Demonstrate confidence to work independently to setup and maintain computer and networking systems.
- Demonstrate techniques to anticipate and prepare for a variety of unknown situations that might impact the operation of a computer system or network.
- Demonstrate understanding of how computers communicate with each other and the methods employed to assure that the communication is reliable.
- Participate in a structured internship based in the workplace and receive real world, hands on experience.

Deaf Preparation/Deaf Education

- Develop individualized Student Education Plans outlining personal, educational, and career goals using multiple measures.
- Become advocates for themselves with regard to personal, educational, and career aspirations.
- Chart personal, educational, and career plans beyond Ohlone.

Deaf Education Certification Program

- Identify jobs within the field of deaf education that would match their personal interests and skills.
- Identify strengths and weaknesses of various communication methods, language options, and placement sites that are currently being used with deaf children in educational settings.

Intensive University Preparation Program (IUPP)

- Pass IUPP Exit Exam and demonstrate eligibility to enroll in ENGL-151B and MATH-152.
- Demonstrate successful achievement of the objectives of the IUPP as able to read, discuss, and react to college level readings; compose essays having clear organization, thesis, and support; express original ideas in English with few grammatical errors; and demonstrate independent study habits.

Community Education and Self Improvement Program

- Demonstrate growth in writing and reading skills.
- Enhance interpersonal, technological, and community awareness skills needed to become more independent and self-sustaining.

Direct Employment Program

- Participate in job search activities, actively pursue job leads, and utilize job placement services.
- Demonstrate the attitude and behavior needed to obtain gainful employment.

Engineering

- Employ general principles, theories, concepts, and/or formulas in the solution of problems.
- Conduct an experimental procedure, use laboratory materials properly and safely, carefully note observations in a laboratory notebook, and describe the procedure clearly for others.
- Participate effectively as team members in group projects: working cooperatively with others, accepting diverse views, encouraging active participation of others, dealing productively with conflict, and taking leadership roles as the need arises to accomplish the group's objective.
- Demonstrate the ability to use modern engineering tools necessary for engineering practice.
- Demonstrate an understanding of the engineering profession.

English

- Demonstrate writing skills at the appropriate level.
- Demonstrate critical reading skills at the appropriate level.
- Retain knowledge from course to course.

English as a Second Language

- Demonstrate the confidence and listening/speaking skills necessary to participate successfully in spontaneous aural/oral exchanges with native speakers of English in a variety of personal, professional, and/or academic settings.
- Demonstrate reading comprehension of English texts intended for developmental (or higher level) English courses.
- Respond appropriately to written or spoken English by writing paragraphs or short essays that communicate ideas clearly.
Foreign Languages
- Demonstrate progressive oral competence of the language as advance through the course levels.
- Decipher progressively more difficult texts as advance through the course levels.
- Become more competent in writing ability through the progressive course levels, in conjunction with the course content of each class.
- Demonstrate rudimentary to more advanced level of cultural and historical understanding of the societies associated with the target language as advance through the course levels.

Geology
- Demonstrate scientific literacy by defining and explaining the major steps in the scientific method of investigation, specifically, the difference between empirical data, interpretation, testable hypothesis, theory, paradigm, speculation, and pseudo-science.
- Apply general math skills such as unit conversion, ratios, and percentages to solving simple rate problems; evaluate data, produce and interpret tables and graphs; apply the metric system of measurement.
- Identify and classify the common earth materials, such as most common minerals, rocks, and fossils in the lab and in the field.
- List, explain, and evaluate global and local (county-wide) geological hazards such as earthquakes, volcanoes, landslides, and seismic sea waves.
- List and categorize common natural resources and explain their origin, spatial distribution, appropriate exploration methods, and the resulting products, wastes, and contaminants.

Graphic Arts/Computer Graphics
- Demonstrate a working knowledge of letter form design, type specification, copy fitting, and thumbnails and mechanicals.
- Demonstrate mastery of computer graphics programs, scanners, tablets, digital cameras, and color printers.
- Demonstrate an awareness of elements of design, design principles, gestalt theory.
- Apply the methods of effective visual communication.
- Demonstrate problem solving skills at an appropriate level.

History/Political Science
- Demonstrate an appreciation for the importance of historical and social science scholarship by gaining a comprehension of both continuity and change over time, positioning citizens and their country, especially its institutions, within the larger historical narrative.
- Demonstrate an understanding of the specific strengths, limitations, and biases of historical and social science scholarship by:
- Describing what historians and political scientists do through a recognition of the kinds of sources that are used and the types of questions that are asked;
- Identifying the difference between primary and secondary sources;
- Critically thinking about course content to formulate interpretations.
- Develop effective communications skills by:
  - Reading secondary and primary source material;
  - Discussing course content with the instructor and among classmates;
  - Writing basic essay arguments using historical and social scientific evidence.

Interior Design
- Plan a space and present that plan visually so that it can be communicated to the client.
- Demonstrate knowledge about the materials and products that will be used to create and furnish the space and how texture, color, lighting, and other factors combine and interact to make a space.
- Demonstrate understanding of the structural requirements of the plans, the health and safety issues, building codes, and many other technical aspects.
- Be comfortable meeting and dealing with many kinds of people.
- Communicate clearly and effectively, as well as be attentive listeners.
- Be both good team leaders and good team players.
- Be willing to negotiate and mediate when necessary to solve problems.
- Demonstrate excellent time and project management abilities and work on more than one project at a time under demanding deadlines.
- Demonstrate the ability to conduct business planning and marketing ideas to clients, create informative and persuasive proposals and presentations, and maintain good client relationships.

Interpreter Preparation Program
- Display the ability to create and maintain professional relationships and appropriate cultural sensitivities with various stakeholders including members of the deaf community, professional interpreters, and interpreter agencies through effective interpersonal and cross-cultural communication skills.
- Demonstrate critical thinking skills by assessing potential demands of various interpreting situations and construct appropriate responses to mitigate those demands, and by applying and defending appropriate decision-making skills when ethical dilemmas arise.
- Perform entry-level Sign Language Interpreting skills in post-secondary educational and/or community settings.

Journalism
- Demonstrate a keen judgment of what makes a news story and how to go about gathering information.
- Demonstrate knowledge of the history, operation, and culture of different forms of mass media, including newspapers, magazines, radio, television, film, and online communication.
- Demonstrate an understanding of communication theory.
- Demonstrate appropriate writing and editing skills.
- Demonstrate the ability to work together, while developing pride in taking responsibility and working independently.
- Demonstrate computer and camera skills needed to be competitive in the mass media field.

Mathematics
- Demonstrate an improved attitude towards math.
- Exhibit problem solving skills at an appropriate level.
- Retain information from course to course.
Multimedia
- Demonstrate proficiency using multimedia software.
- Illustrate concepts of design.
- Demonstrate the ability to design projects that communicate specific ideas.
- Exhibit professional behavior and work ethics.

Music
- Demonstrate fluency in the language of music, be it spoken, written, played, or heard.
- Demonstrate a cultural, historical, and analytical perspective on the study of music.
- Demonstrate artistic growth and personal enrichment through the performance of music.
- Assemble the vocational skills necessary for a career in music.

Nursing
- Qualify for state licensure as a registered nurse by achieving a passing score on the NCLEX-RN.
- Value responsibility for professional development and practice within the ethical and legal framework of nursing.
- Synthesize principles of the nursing process and critical thinking to assist individuals, families, and communities to achieve positive adaptation to change in health or a peaceful death.
- Synthesize principles of communication to effectively relate with individuals, families, groups, and/or colleagues of diverse socio-cultural backgrounds in various health-care settings.
- Synthesize principles of holistic nursing practice when providing nursing care for clients at various stages in their life span.
- Empower individuals, families, and the community to develop positive health behaviors through health promotion and teaching.
- Manage nursing care for individuals, families, and/or communities, in collaboration with the multidisciplinary team.
- Value a commitment to caring.
- Integrate concepts of nursing practice, across the health care continuum, to provide cost effective care over time.

Philosophy
- Define key terms of the philosophical vocabulary relevant to the course.
- Distinguish different areas of philosophy and philosophical methodology.
- Understand some of the diverse assumptions and values that shape our experiences and attitudes.
- Read at a comprehension level that is appropriate for a college student.
- Write an argumentative essay.
- Think critically assess real world issues, and the various perspectives on them.
- Evaluate good and bad arguments.
- Understand and communicate abstract ideas.

Physical Therapist Assistant
- Practice in a variety of settings that serve diverse patient populations.
- Practice within the laws and regulations of California and the ethical tenets of the American Physical Therapy Association.
- Apply evidence based knowledge, skills, and demeanor that engender comprehensive assistance to the patient and the supervising physical therapist so that treatment goals may be reached effectively and expeditiously.
- Self-evaluate learning needs to advance in the profession and improve skills for providing patient care.
- Effectively communicate with patients, colleagues, and other members of the health care team using oral, written, and non-verbal communication skills.

Physical Science/Physics
- Demonstrate a comprehension of physical and environmental reality by understanding how fundamental physical principles underlie the huge variety of natural phenomena and their interconnectedness.
- Demonstrate a comprehension of biological reality by understanding how physical principles are at work in living organisms.
- Demonstrate a comprehension of technology by understanding how things work on a fundamental level.
- Build critical thinking and quantitative skills by gaining insight into the thought processes of physical approximation and physical modeling, by practicing the appropriate application of mathematics to the description of physical reality, and by searching for a physical interpretation of mathematical results.
- Demonstrate basic experimental skills by the practice of setting up and conducting an experiment with due regards to minimizing measurement error and by the thoughtful discussion and interpretation of data.
- Demonstrate basic communication skills by working in groups on a laboratory experiment.
- Retain information from course to course by aiming at proficiency in the correct use of all the fundamental laws and equations to solve integrated problems.

Psychology
- Demonstrate understanding and appreciation of cultural diversity through knowledge of behavioral principles from a cross-cultural perspective.
- Demonstrate critical thinking skills necessary to critically assess real world issues and the various perspectives on them.
- Evaluate scientific studies with an understanding of what constitutes a valid research method and publication source.
- Demonstrate effective communication skills by reading primary and secondary source material, discussing course content, and writing one or more papers.
- Demonstrate understanding of the diverse assumptions and values that shape our experiences and/or attitudes of the world.
- Articulate the major psychological theories.
Real Estate
- Demonstrate five skills/tasks that are performed by a real estate professional.
- Demonstrate five code of ethics conducts by which a real estate professional must abide.
- Demonstrate proficiency in the use of computer hardware and software used in the real estate industry.
- Demonstrate proficiency in the day-to-day business of real estate including how to do listings, deposit receipts, open escrows, and securing financing.
- Demonstrate proficiency in the basic principles of California real estate law.
- Analyze real estate financing.
- Analyze the real estate appraisal process.
- Demonstrate proficiency in the basic principles of real estate property management.

Respiratory Therapist
- Demonstrate mastery of cognitive learning in respiratory care by successfully passing the licensure examination accepted by the California State Respiratory Care Board (National Board for Respiratory Care Entry Level Examination) and qualify for licensure as a California Respiratory Care Practitioner within a year of graduation.
- Demonstrate mastery of cognitive learning in respiratory care by successfully passing the National Board for Respiratory Care Advanced Practitioner Written Registry Examination with scores that are equal to or that exceed the national average.
- Demonstrate mastery of cognitive learning in respiratory care by successfully passing the National Board for Respiratory Care Advanced Practitioner Clinical Simulation Examination with “Information Gathering” and “Decision Making” scores that are equal to or that exceed the national average.
- Demonstrate mastery of psychomotor learning in respiratory care as evidenced by successful completion of comprehensive laboratory practical examinations and demonstration of safe and knowledgeable clinical practice in the local community.
- Demonstrate mastery of psychomotor learning in respiratory care as evidenced by positive employer feedback on evaluation instruments.
- Demonstrate mastery of psychomotor learning in respiratory care as evidenced by positive feedback from program graduates themselves at least one year post graduation.
- Demonstrate mastery of the affective learning domain as evidenced by appropriate display of professional behaviors while engaging in clinical patient care settings.
- Demonstrate mastery of the affective learning domain as evidenced by positive ratings of professional behaviors on national evaluation instruments by local employers and advisory board members.
- Demonstrate the cognitive, psychomotor, and affective skills necessary to assist the physician in the diagnosis, treatment, and management of patients with cardiopulmonary diseases and disorders.
- Demonstrate appropriate critical thinking skills, time management skills, interpersonal communication skills, and technical skills necessary to provide competent respiratory care in multidisciplinary care settings.
- Commit to promoting appreciation for, communication between, and understanding among people with different beliefs and backgrounds and demonstrate sensitivity to the professional needs of all racial and ethnic groups.
- Demonstrate respect for and protection of the legal and personal rights of the patients they treat and promote disease prevention and wellness in local work settings and the community at large.

Sociology
- Demonstrate and understand a variety of explanations accounting for human behavior (in evolutionary and/or contemporary contexts) and to account for differences in terms of the interplay among society, culture, and biology.
- Demonstrate competence in defining, critically assessing, and using sociological concepts.
- Demonstrate familiarity with theoretical perspectives and historical developments in the discipline.
- Identify and employ various research designs and their appropriate application to the study of social life.
- Demonstrate an understanding of cross-cultural differences and an understanding of the importance of cultural context.

Speech/Forensics
- Communicate with diverse audiences in multiple contexts to meet the goals of the intended communication.
- Describe and analyze the symbolic nature of communication and how it creates individual, group, and cultural reality.
- Identify, evaluate, and utilize evidence to support claims used in presentations and arguments.
- Demonstrate through performance and analysis the importance of both verbal and nonverbal communication.

Theatre and Dance
- Demonstrate clear, visionary, and co-operative communication in work ethics, academic relationships, educational goals, and public performance.
- Demonstrate problem solving skills through self-motivated and co-operative assignments.
- Demonstrate responsibility and leadership skills in meeting deadlines, working independently, and commitment to others.
ADMINISTRATION OF JUSTICE
Division: Humanities, Social Sciences, and Mathematics

AJ-101 Administration of Justice
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course covers the history and philosophy of administration of justice in America as well as recapitulation of the system identifying the various sub-systems and their relationships. Theories of crime, punishment, ethics, education and training for professionalism in the system are explored. (GR) (CAN AJ 2)

AJ-102 Criminal Law
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course covers concepts of criminal law: historical development, philosophy of law, and constitutional provisions. Also covered will be classifications of crime and their application to the system of administration of justice. In addition, the course covers legal research, study of case law, methodology, and concepts of law as a social force. (GC) (CAN AJ 4)

AJ-104 Criminal Evidence
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course covers the legal aspects of evidence. The origin, development, philosophy, and constitutional basis of evidence, along with constitutional and procedural considerations affecting arrest, search and seizure, kinds and degrees of evidence, and rules governing admissibility are studied. Judicial decisions interpreting individual rights and case studies are used to interpret the material. (GC) (CAN AJ 6)

AJ-106 Criminal Procedure
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course covers the principles and procedures of the justice system. It is an in-depth study of the role and responsibilities of each segment within the Administration of Justice system – law enforcement, judicial, and corrections. (GC)

AJ-107 Criminal Investigation
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers the nature of investigation, crime scene search and recording, interviews and interrogation, sources of information, case preparation, and investigative techniques in specific crimes. (GC) (CAN AJ 8)

AJ-115 Cyber Crime
3.00 hrs lecture, 1.00 hrs lab
Units: 3.00
Advisory: ENGL-151B, ENGL-163
Accepted For Credit: CSU
This course will give students background in the history and terminology of computer crimes. The investigation of computer crimes and the forensic processing of seized computer data while safeguarding the constitutional rights of individuals will be examined. (GR)

AJ-116 Criminal Forensics
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course covers training of crime laboratory technicians in photography, scientific analysis, identification and comparison of physical evidence. Emphasis is placed on techniques and tests involved in cases of alcohol and drug intoxication and identification, blood types, fingerprints, ballistics, explosives, ultraviolet techniques, tool marks, and questioned documents. (GC)

AJ-117 Police and Society
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course involves an in-depth exploration of roles of Administration of Justice practitioners and their agencies. Through interaction and study, students will become aware of interrelationships and role expectations among various agencies and the public. Emphasis is placed on the professional image of the Administration of Justice system and development of positive relationships between members of the system and the public. (GC)

AJ-118 Criminology
3.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course studies human behavior and the reasons and motivations why people commit crimes. It will also examine the nature and extent of crimes as well as causes and prevention of criminality. (GR)

AJ-119 Murder in America
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: PSY-104
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This course surveys the psychological and criminological aspects of murder in America, including serial killers, mass murders, and terrorism. (GR)

AJ-120 Report Writing for Law Enforcement and the Administration of Justice
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This course will provide pre-service students with an introduction to the field of report writing for law enforcement and the Administration of Justice system. Repeatable = 2 times (GC)

AJ-123 Terrorism
3.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B, ENGL-163
Accepted For Credit: CSU
This course examines basic information about the structure and nature of domestic and international terrorism and the roles of state and local law enforcement in national defense. (GR)

AJ-131 Juvenile Justice
3.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course covers causes and forms of juvenile delinquency, the handling of juvenile offenders and victims, the prevention and repression of juvenile delinquency, the diagnosis and referral of juvenile offenders, the organization of community resources, and juvenile law and juvenile court procedures. (GR)
AJ-132 Civil Law
2.00 hrs lecture
Units: 2.00
This course covers the essentials of non-criminal law as it relates to contracts, personal and property rights, torts, marriage and family relations, and the civil action. This course also covers obtaining and enforcing emergency protective restraining orders. (GC)

AJ-135 Drug Enforcement
2.00 hrs lecture
Units: 2.00
This course covers the identification of narcotic and dangerous drugs, the users of drugs and their supply, the law as an agency of drug control, investigation and processing of drug violations, and social solutions to the drug problems. (GC)

AJ-140 Post Level III Part I Laws of Arrest
4.00 hrs lecture
Units: 2.00
This course is POST (Police Officer Standards and Training) certified as 40 hours of Module A of the Reserve Officer’s Course. This course is presented in one week, 8 hours per day. This course covers professionalism for law enforcement officers, basic legal concepts, the laws of evidence and investigative techniques, and unarmed defense and handcuffing techniques. The course is principally directed at individuals who deal with members of the general public in their regular occupation and who can be expected to be issuing citations. (CR)

AJ-141 Post Level III Part I Basic Firearms Qualification
10.00 hrs lecture, 14.00 hrs lab
Units: 1.00
This course is the basic POST (Police Officer Standards and Training) certified 24-hour firearms training with qualification certificate upon completion. Repeatable = 3 times. (CR)

AJ-144 Leadership Skills Development
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151A
This course is designed to teach skills needed to create future leaders and supervisors for the public safety sector. Emphasis is not to teach students about supervision, but about leadership, and the differences between the two. (GC)

AJ-150 POST Level III Part 2 Laws of Arrest Reserve Level III Training
4.50 hrs lecture, 1.10 hrs lab
Units: 5.00
Prerequisite: AJ-140 and AJ-141
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This class is the basic POST (California Department of Justice’s Commission on Peace Officer Standards and Training) Level III Part 2 Reserve Officer 98-hour training course. Successful completion of this course together with the basic 64 hour-Part 1 courses – AJ-140 and AJ-141 – will enable students the opportunity to apply for a Level III reserve officer position with any law enforcement agency employing reserve officers in the State of California. Repeatable = 3 times (GC)

AJ-195A1 Work Experience Education – Vocational
4.20 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

AJ-195A2 Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

AJ-195A3 Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

AJ-195A4 Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

AIR FORCE
Division: Fine Arts, Business, and Broadcasting

AF-101A Foundations of the U.S. Air Force
1.25 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Today’s Air Force officer and the Air Force as a whole. (GR)

AF-101B Foundations of the U.S. Air Force
1.00 hrs lecture, 1.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Introduction to ethics, values, leadership and leadership problems, and communication skills. (GR)

AF-102A The Evolution of the U.S. Air Force
1.25 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Introduction to ethics, values, leadership and leadership problems, and communication skills. (GR)

AF-102B Evolution of the U.S. Air Force Air and Space Power
2.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU
Introduction to ethics, values, leadership and leadership problems, and communication skills. (GR)
ALLIED HEALTH
Division: Health Sciences and Academic Affairs

AH-110 **Medical Terminology**
2.00 hrs lecture
Units: 2.00
Corequisite: AH-111
Advisory: Eligible for ESL-184RW and ENGL-162; SPCH/ESL-150 or SPCH/ESL-151
Accepted For Credit: CSU
This course is an introduction to medical terminology as used in the health professions. Course content includes anatomical and physiological terminology; basic structure, prefixes, suffixes; combining forms; abbreviations; and analysis of a medical paper. Repeatable = 1 time (GR)

AH-111 **Medical Terminology**
2.00 hrs lecture
Units: 2.00
Corequisite: AH-110
Advisory: Eligible for ESL-184RW and ENGL-162; SPCH/ESL-150 or SPCH/ESL-151
Accepted For Credit: CSU
This course provides opportunities for application of medical terminology and further development of skill in analyzing components of medical terms and guiding a medical vocabulary applicable to specialties of medicine. Repeatable = 1 time (GR)

AH-114 **Laboratory and Diagnostic Tests**
1.00 hrs lecture
Units: 1.00
This course is designed for health science students and RN practitioners. Students will learn the purpose of various lab and diagnostic tests. Using clinical case studies, test results will be presented and analyzed. Not applicable to associate degree. Repeatable = 1 time (CR)

AH-117A **Basic Phlebotomy Training**
2.00 hrs lecture
Units: 2.00
Prerequisite: AH-110, AH-111 with grade of C or better
This course meets the California content standards for basic phlebotomy training. It is the first course in the four course series leading to the Ohlone College Phlebotomy Certificate of Completion and eligibility to sit for the state certification exam as a Phlebotomy Technician I. This is a 36-hour course normally offered in an abbreviated format over 3 to 4 weeks. Not applicable to associate degree. Repeatable = 1 time (CR)

AH-117B **Phlebotomy Skills Lab**
1.50 hrs lab
Units: 0.50
Prerequisite: AH-117A with grade of C or better; must have been taken within one year
This course is the second course of the four course series required for the Phlebotomy Certificate of Completion. In this course students demonstrate what has been learned in the previous phlebotomy course. In a laboratory setting, under the supervision of the phlebotomy instructor, the student will demonstrate safe blood withdrawal techniques for vacuum system, butterfly needle, syringe system, and capillary puncture. The students will collect samples from each other and demonstrate safe transport of specimens. Skill mastery will be assessed through a final practice exam that must be successfully completed to progress to AH-117D Phlebotomy Externship. Students must have their Health Forms completed to participate in this course. This is a 27 hour course normally taught over a 1 to 3 week period. Not applicable to associate degree. Repeatable = 1 time (CR)

AH-117C **Advanced Phlebotomy Training**
1.50 hrs lecture
Units: 1.50
Prerequisite: AH-117A with grade of C or better; AH-117B; all must have been taken within one year
This is the third course in the four course series that meets the California content standards for eligibility to sit for the Phlebotomy Technician I certification exam. All four courses are required to earn the Ohlone College Phlebotomy Certificate of Completion. This course builds upon the content and principles taught in AH-117A, Basic Phlebotomy Training. It addresses each standard as outlined in the California standards and includes preparation for state certification. This is a 27 hour course normally offered over a 2 to 3 week period. Not applicable to associate degree. Repeatable = 1 time (CR)

AH-117D **Phlebotomy Externship**
6.00 hrs lab
Units: 2.00
Prerequisite: AH-117A and AH-117C with grade of C or better; AH-117B; all must have been taken within one year
This is the fourth of four courses required to earn the Phlebotomy Certificate of Completion. This is a clinical course in which students are assigned to experienced phlebotomists in clinical settings to practice blood collection, patient interaction, specimen processing, and laboratory function in healthcare. Students are mentored as they master techniques as required by California regulations. This is a 108-hour clinical course normally taught in an intensive 3-week block. Not applicable to associate degree. Repeatable = 1 time (CR)

AH-118 **Advanced Phlebotomy for Practitioners**
1.50 hrs lecture
Units: 1.50
Advisory: Phlebotomy work experience within the past five (5) years as required by California law
This course is open to practicing phlebotomists who by law are eligible to sit for the Phlebotomy Technician I certification exam upon successfully completing this course. The content meets the standards as set forth by California law and the Department of Health Services. It prepares students to sit for the certification exam and includes advanced techniques in blood collection. This is a 27-hour course normally offered in an abbreviated format over 2 to 3 weeks. Not applicable to associate degree. Repeatable = 1 time (CR)

AH-120 **Electrocardiography and Vital Signs**
1.50 hrs lab
Units: 0.50
Advisory: AH-110, AH-111
This is a short-term 27 hour experiential course in a variety of formats. This course introduces the principles and applications of electrocardiography (ECG) and vital signs (temperature, pulse, respiration, blood pressure). Not applicable to associate degree. Repeatable = 1 time (CR)

AH-121 **EKG Interpretation**
1.00 hrs lecture
Units: 1.00
Students are introduced to waveform identification, measurements, determination of rhythms, determination of heart rates, and various EKG rhythms and dysrythmias. This course will also review cardiac anatomy and physiology in relation to various rhythms. Students will practice interpreting EKG rhythms. A brief review of anatomy and physiology is included. Repeatable = 1 time (CR)
### AMERICAN SIGN LANGUAGE

**Division:** Deaf Studies and Special Services

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Acceptance</th>
<th>Repeatable</th>
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</thead>
<tbody>
<tr>
<td>ASL-101A</td>
<td>Principles of American Sign Language I</td>
<td>5.00</td>
<td>This course covers the beginning fundamental principles of American Sign Language and introduces basic information about the Deaf community and Deaf culture. This course is required for students majoring in American Sign Language/Deaf Studies and is a prerequisite for students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)</td>
<td>ASL-101A or equivalent with grade of C or better or equivalent</td>
<td>CSU &amp; UC</td>
<td>3 times (CR)</td>
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<tr>
<td>ASL-101B</td>
<td>Principles of American Sign Language I</td>
<td>5.00</td>
<td>This course is an enhanced and expanded Level I study of the fundamentals of American Sign Language grammar and is a further study of the Deaf community and Deaf culture. This course is recommended for students who have completed ASL-101A and desire to further study and review before taking ASL-102A. Students are expected to attend outside events at their own expense. (GR)</td>
<td>ASL-101A or equivalent</td>
<td>CSU &amp; UC</td>
<td>3 times (CR)</td>
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<tr>
<td>ASL-102A</td>
<td>Principles of American Sign Language II</td>
<td>5.00</td>
<td>This course covers the fundamental principles of Level II American Sign Language and introduces more advanced information about the Deaf community and Deaf culture. This course is recommended for students majoring in American Sign Language/Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)</td>
<td>ASL-101A or B with a grade of C or better or equivalent</td>
<td>CSU &amp; UC</td>
<td>3 times (CR)</td>
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<tr>
<td>ASL-102B</td>
<td>Principles of American Sign Language II</td>
<td>5.00</td>
<td>This course is an enhanced and expanded Level II study of the fundamentals of American Sign Language and is a further study of the Deaf community and Deaf culture. This course is recommended for students who have completed ASL-102A and desire further study and review. Students are expected to attend outside events at their own expense. (GR)</td>
<td>ASL-102A or equivalent</td>
<td>CSU &amp; UC</td>
<td>3 times (CR)</td>
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<tr>
<td>ASL-103A</td>
<td>Principles of American Sign Language III</td>
<td>5.00</td>
<td>This course covers the fundamental principles of Level III of American Sign Language for students who have completed ASL-102A and is a further study of the Deaf community and Deaf culture. It is required for students majoring in American Sign Language/Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)</td>
<td>ASL-102A or B with grade of C or better, or equivalent</td>
<td>CSU &amp; UC</td>
<td>3 times (CR)</td>
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<tr>
<td>ASL-103B</td>
<td>Principles of American Sign Language III</td>
<td>5.00</td>
<td>This course is an expanded and enhanced Level III study of the fundamental principles of American Sign Language and is a further study of the Deaf community and Deaf culture. This course is recommended for students who have completed ASL-103A and who desire further study and review before taking ASL-104A. Students are expected to attend outside events at their own expense. (GR)</td>
<td>ASL-103A or equivalent</td>
<td>CSU &amp; UC</td>
<td>3 times (CR)</td>
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<td>ASL-104A</td>
<td>Principles of American Sign Language IV</td>
<td>5.00</td>
<td>This course covers the fundamental principles of Level IV of American Sign Language and continues information about the Deaf community and Deaf culture. This course is required for students majoring in American Sign Language/Deaf Studies and students wishing to enter the Interpreter Preparation Program. It is for students who have completed ASL-103A or ASL-103B. Students are expected to attend outside events at their own expense. (GR)</td>
<td>ASL-103A or B with grade of C or better, or equivalent</td>
<td>CSU &amp; UC</td>
<td>3 times (CR)</td>
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<td>Course Code</td>
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<td>Hours</td>
<td>Prerequisites</td>
<td>Acceptance For Credit:</td>
<td>Repeatable Times</td>
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<td>1.00</td>
<td>1.00 labs</td>
<td>CSU &amp; UC</td>
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<td>ASL-104A or equivalent</td>
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<td>Deaf Education</td>
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<td>Classifiers in ASL</td>
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<td>ASL-181A</td>
<td>Conversational ASL I</td>
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<td>Workshops in Deaf Studies</td>
<td>2.00</td>
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<td>This course is a workshop for students covering selected topics in the area of Deaf Studies. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-191A-C (CR)</td>
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<td>Workshops in Deaf Studies</td>
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<td>This course is a workshop for students covering selected topics in the area of Deaf Studies. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-191A-C (CR)</td>
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<td>Workshops in Deaf Studies</td>
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<td>This course is a workshop for students covering selected topics in the area of Deaf Studies. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-191A-C (CR)</td>
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<td>ASL-183</td>
<td>ASL Skill Building</td>
<td>3.00</td>
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<td>ASL-190A</td>
<td>Workshop in Basic ASL</td>
<td>1.00</td>
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<td>This course is a workshop for students covering selected topics in the area of American Sign Language (ASL). The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-190A-C (CR)</td>
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<td>ASL-190B</td>
<td>Workshop in Basic ASL</td>
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<td>This course is a workshop for students covering selected topics in the area of American Sign Language (ASL). The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-190A-C (CR)</td>
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<td>ASL-190C</td>
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<td>This course is a workshop for students covering selected topics in the area of American Sign Language (ASL). The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-190A-C (CR)</td>
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<td>This course is a workshop for students covering selected topics in the area of Deaf Studies. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-190A-C (CR)</td>
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<td>ASL-181B</td>
<td>Conversational ASL II</td>
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<td>Workshops in Deaf Studies</td>
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<td>This course is a workshop for students covering selected topics in the area of Deaf Studies. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-191A-C (CR)</td>
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**ANTHROPOLOGY**

Division: Science, Technology, and Academic Affairs

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
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<tr>
<td>ANTH-101</td>
<td>Physical Anthropology</td>
<td>3.00</td>
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<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3.00</td>
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<td>ANTH-103</td>
<td>Introduction to Archaeology and Prehistory</td>
<td>3.00</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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</table>
ANTH-104  Survey of North American Indian Cultures
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course will focus on the prehistoric and historic distribution of Native American populations and their respective cultures. Topics to be covered include prehistory and ethnographic record of North American Indian cultures. This will include social organizations, linguistics, religion, post contact history, and contemporary issues of Native Americans. (GC)

ANTH-105  Field Archaeology
1.00 hrs lecture, 6.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course deals with the methods of scientific excavation implementing the techniques of a field archeologist. Emphasis will be on the scientific method as it relates to excavation, classifying, cataloging, and preservation of past human cultures under supervised field and laboratory conditions. Repeatable = 3 times (GC)

ANTH-106  Magic, Witchcraft, and Religion
3.00 hrs lecture
Units: 3.00
Advisory: ANTH-102
Accepted For Credit: CSU & UC
This course involves the study of belief systems from cultures around the world. Students will analyze the functions of religious beliefs and the varied expressions of religion through ritual behaviors, use of magic, cures, hallucinogenic drugs, and the importance of the mind-body connection. Emphasis will be placed upon concepts of good and evil, god and devil, and cultural survival from an anthropological perspective. (GC)

ANTH-365  Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or Counselor Referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis with consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 3 times (NG)

ART-100  Survey of the Arts
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-100, MUS-100, TD-100
Corequisite: ART-100L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
In this course, Theatre, Art, and Music are explored through discussion, historical review, and contemporary issues. The purpose of this course is to increase students' understanding and enjoyment of the arts. (GC)

ART-100L  Survey of the Arts Performance Attendance Lab
6.00 hrs lab
Units: 0.00
Cross-referenced Course: IS-100L, MUS-100L, TD-100L
Corequisite: ART-100
This is a concert, performance, or gallery attendance lab component for Survey of the Arts course requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. (NG)

ART-101  Art: An Introduction
3.00 hrs lecture
Units: 3.00
Corequisite: ART-101L
Accepted For Credit: CSU & UC
This course is a survey of the visual arts: painting, sculpture, architecture, and film. The student will be introduced to the various functions of art in our society. The desired outcome is a more critical observer. (GC)

ART-101L  Art: An Introduction Performance Attendance Lab
2.00 hrs lab
Units: 0.00
Corequisite: ART-101
This is a gallery attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. (NG)

ART-103A  Survey of World Art History – Prehistoric Through 1300 C.E.
4.00 hrs lecture
Units: 4.00
Corequisite: ART-103L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course consists of visual art history primarily from prehistory through 14th century: Mesopotamian, Egyptian, Greek, Roman, Early Christian, Islamic, African, Pre-Columbian, Asian, and the art of the Americas. (GC) (CAN ART 2)
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<th>Course Code</th>
<th>Course Title</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Notes</th>
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<tr>
<td>ART-103B</td>
<td>Survey of World Art History--14th Century Through 20th Century</td>
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<td>Corequisite: ART-103L</td>
<td>This course consists of a survey of visual arts from the Renaissance through the present. It includes studies of the art of the Americas, Africa, and Asia. (GC) (CAN ART-4)</td>
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<td>ART-103L</td>
<td>Survey of World Art History Performance Attendance Lab</td>
<td>2.00</td>
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<td>Corequisite: ART-103A or B or D or E</td>
<td>This is a gallery attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)</td>
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<td>ART-104A</td>
<td>2D Design</td>
<td>2.00</td>
<td>4.00</td>
<td>3.00</td>
<td>Accepted For Credit: CSU &amp; UC</td>
<td>This lecture/studio class will introduce the beginning student to the techniques and concepts related to the organization of two-dimensional imagery. Studio work will include collage, painting, printmaking, and drawing. Repeatable = 3 times (GC) (CAN ART-14)</td>
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<tr>
<td>ART-104B</td>
<td>3D Design</td>
<td>2.00</td>
<td>4.00</td>
<td>3.00</td>
<td>Prerequisite: ART-104A</td>
<td>This lecture/studio class is a continuation of ART-104A. A major emphasis will be on the advanced study in color theory and the principles of three-dimensional form. Repeatable = 3 times (GC) (CAN ART-16)</td>
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<td>ART-104C</td>
<td>Color</td>
<td>2.00</td>
<td>4.00</td>
<td>3.00</td>
<td>Accepted For Credit: CSU &amp; UC</td>
<td>This lecture/studio class will introduce the beginning student to various theories of color, hands-on experience in mixing colors, and practical observation in color relationships and effects. The quality of color will be explored through hue, value, and saturation. Repeatable = 3 times (GC)</td>
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<td>ART-105A</td>
<td>Glass Art and Design</td>
<td>2.00</td>
<td>7.00</td>
<td>3.00</td>
<td>Accepted For Credit: CSU</td>
<td>This course is an introduction to fundamentals of glass-related design including studies of depth of field, reflected/refracted light, volume, and value/color balance. The course covers casting, fusion, slumping, sandblasting, lamination, fabrication techniques, and contemporary glass survey lectures. Repeatable = 3 times (GC)</td>
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<td>ART-105B</td>
<td>Advanced Glass Fabrication</td>
<td>2.00</td>
<td>7.00</td>
<td>3.00</td>
<td>Prerequisite: ART-105A</td>
<td>This course emphasizes further explorations in glass including moldmaking, casting, fusing, slumping, advanced lamination, and torchwork. Repeatable = 3 times (GC)</td>
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<td>ART-105C</td>
<td>3D Glass</td>
<td>2.00</td>
<td>7.00</td>
<td>3.00</td>
<td>Prerequisite: ART-105A and ART-105B</td>
<td>This course emphasizes three-dimensional glass using advanced techniques in kiln forming, sand casting, lamination, and torchwork. Repeatable = 3 times (GC)</td>
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<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>2.00</td>
<td>4.00</td>
<td>3.00</td>
<td>Accepted For Credit: CSU &amp; UC</td>
<td>This is a basic drawing course designed to teach students fundamental drawing skills and techniques. Composition and presentation of subject matter as well as use of charcoal, pencil, ink, and pastel will be emphasized. Repeatable = 3 times (GC) (CAN ART-8)</td>
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<td>ART-106B</td>
<td>Intermediate Descriptive Drawing</td>
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<td>Prerequisite: ART-106A</td>
<td>This course involves the further study of drawing concepts emphasizing creative expression and composition. The course emphasizes studio practice with a variety of visual elements, methods, and materials. Repeatable = 3 times (GC)</td>
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<td>ART-107A</td>
<td>Life Drawing</td>
<td>2.00</td>
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<td>3.00</td>
<td>Prerequisite: ART-106A</td>
<td>This course involves drawing the human figure from both an anatomical and intuitively observational method. Media used include charcoal, graphite, ink, water color, and oil wash. Repeatable = 3 times (GC) (CAN ART-24)</td>
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<td>ART-107B</td>
<td>Life Drawing</td>
<td>2.00</td>
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<td>Prerequisite: ART-107A</td>
<td>This course is a continuation of the work and methodology of ART-107A, but with an emphasis on expressive interpretation in drawing the human figure and the use of color. Repeatable = 3 times (GC)</td>
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<td>Perspective Drawing</td>
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<td>Beginning Graphic Design I (Letter Forms and Typography)</td>
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<td>ART-109B</td>
<td>Beginning Graphic Design II</td>
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<td>ART-111A</td>
<td>Painting – Color and Composition</td>
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<td>ART-112</td>
<td>Watercolor</td>
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<td>ART-116A</td>
<td>Basic Sculpture</td>
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<td>ART-116B</td>
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<td>ART-116C</td>
<td>Sculpture and Beyond</td>
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<td>Museum and Gallery Techniques (Exhibition Production)</td>
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<td>Museum and Gallery Techniques (Promotional Graphics)</td>
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<td>ART-119A</td>
<td>3D Studio Lab</td>
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<td>ART-119B</td>
<td>Intermediate 3D Studio Lab</td>
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<tr>
<td>ART-120A</td>
<td>Ceramic Studio Development and Maintenance I</td>
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<td>Corequisite: One of the following: ART-105A,B,C; ART-116A,B,C; ART-120A,B; ART-121A,B; ART-122A,B; ART-124; ART-125A,B; ART-126A,B</td>
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<td>ART-120B</td>
<td>Ceramic Studio Development and Maintenance II</td>
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<td>Corequisite: ART-120A or equivalent</td>
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<td>ART-121A</td>
<td>Introductory Ceramics I</td>
<td>2.00</td>
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<td>ART-121B</td>
<td>Introductory Ceramics II</td>
<td>2.00</td>
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<tr>
<td>ART-122A</td>
<td>Ceramic Throwing I</td>
<td>2.00</td>
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<td>Corequisite: One of the following: ART-105A,B,C; ART-116A,B,C; ART-120A,B; ART-121A,B; ART-122A,B; ART-124; ART-125A,B; ART-126A,B</td>
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<tr>
<td>ART-122B</td>
<td>Ceramic Throwing II</td>
<td>2.00</td>
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<td>Corequisite: One of the following: ART-105A,B,C; ART-116A,B,C; ART-120A,B; ART-121A,B; ART-122A,B; ART-124; ART-125A,B; ART-126A,B</td>
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<td>ART-123</td>
<td>Ceramic Decorating</td>
<td>2.00</td>
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<td>Corequisite: One of the following: ART-105A,B,C; ART-116A,B,C; ART-120A,B; ART-121A,B; ART-122A,B; ART-124; ART-125A,B; ART-126A,B</td>
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<td>ART-124</td>
<td>Advanced Ceramic Decorating</td>
<td>2.00</td>
<td>0.00</td>
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<td>Corequisite: One of the following: ART-105A,B,C; ART-116A,B,C; ART-120A,B; ART-121A,B; ART-122A,B; ART-124; ART-125A,B; ART-126A,B</td>
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<td>ART-131A</td>
<td>Fine Art Photography: The Early Years</td>
<td>2.00</td>
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<td>Corequisite: One of the following: ART-105A,B,C; ART-116A,B,C; ART-120A,B; ART-121A,B; ART-122A,B; ART-124; ART-125A,B; ART-126A,B</td>
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<td>ART-131B</td>
<td>Fine Art Photography: the Second Century</td>
<td>2.00</td>
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<td>Corequisite: One of the following: ART-105A,B,C; ART-116A,B,C; ART-120A,B; ART-121A,B; ART-122A,B; ART-124; ART-125A,B; ART-126A,B</td>
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<td>Course Code</td>
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<td>Units</td>
<td>Cross-referenced Courses</td>
<td>Acceptance For Credit</td>
<td>Advisory</td>
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<td>ART-133A</td>
<td>Black and White Photography</td>
<td>2.00</td>
<td>3.00</td>
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<td>CSU &amp; UC</td>
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<td>ART-133B</td>
<td>Intermediate Black and White Photography</td>
<td>2.00</td>
<td>3.00</td>
<td>Prerequisite: ART-133A or instructor's approval</td>
<td>CSU</td>
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<td>ART-133C</td>
<td>Advanced Black and White Photography</td>
<td>2.00</td>
<td>3.00</td>
<td>Prerequisite: ART-133B or instructor's approval</td>
<td>CSU</td>
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<tr>
<td>ART-134A</td>
<td>Basic Color Photography</td>
<td>2.00</td>
<td>3.00</td>
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<td>CSU</td>
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<tr>
<td>ART-134B</td>
<td>Advanced Color Photography</td>
<td>2.00</td>
<td>3.00</td>
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<td>CSU</td>
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<tr>
<td>ART-139A</td>
<td>Digital Photography</td>
<td>1.00</td>
<td>2.00</td>
<td>Prerequisite: ART-139A, GA-169A, CS-169A, or approval by portfolio review</td>
<td>CSU</td>
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<tr>
<td>ART-139B</td>
<td>Intermediate Digital Photography</td>
<td>1.00</td>
<td>2.00</td>
<td>Prerequisite: ART-139A, GA-169A, CS-169A, or approval by portfolio review</td>
<td>CSU</td>
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<tr>
<td>ART-145</td>
<td>Digital Photojournalism</td>
<td>1.00</td>
<td>2.00</td>
<td>Prerequisite: ART-133A or equivalent photographic experience</td>
<td>CSU</td>
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<tr>
<td>ART-146</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>0.50</td>
<td>1.00</td>
<td>Prerequisite: ART-106A or ART-133A or equivalent</td>
<td>CSU</td>
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<tr>
<td>ART-147</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>1.00</td>
<td>2.00</td>
<td>Prerequisite: ART-106A or ART-133A or equivalent</td>
<td>CSU</td>
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<tr>
<td>ART-148</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>1.00</td>
<td>3.00</td>
<td>Prerequisite: ART-106A or ART-133A or equivalent</td>
<td>CSU</td>
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ART-150A  Interior Design Concepts
3.00 hrs lecture, 2.00 hrs lab
Units: 3.00  Cross-referenced Course: ID-150A
Accepted For Credit: CSU
This is an introductory course. Students analyze interiors using
basic design concepts. Principles and techniques used by
professional interior designers are demonstrated. Case studies
in problem solving with an emphasis on residential interiors are
presented. Repeatable = 1 time (GC)

ART-150B  Interior Design
2.00 hrs lecture, 4.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-150B
Prerequisite: ART/ID-150A
Accepted For Credit: CSU
This course is a continuation of ART 150A. Interior design
theories and methodologies are explored in depth through case
studies emphasizing the design of public space. Repeatable = 3
times (GC)

ART-151  Visualization and Presentation
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-151
Advisory: ART-150A, ART-155 or ART-108
Accepted For Credit: CSU
This course familiarizes students with current methods and
materials used in the design industry to develop concepts and
communicate ideas. Students will prepare a design portfolio.
Repeatable = 3 times (GC)

ART-153  History of Decorative Arts
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ID-153
Accepted For Credit: CSU
Students study furniture construction, styles, and periods in
conjunction with the architecture and related decorative arts of
each era from ancient times to the present. This course includes
a brief political, religious, and cultural history which significantly
influenced these arts. (GC)

ART-154  Contemporary Home Design
2.00 hrs lecture
Units: 2.00
Cross-referenced Course: ID-154
Accepted For Credit: CSU
Students will study the architectural history of home design and
learn practical applications of information relating to design,
construction methods, and economic practices. (GC)

ART-155A  Architectural Drafting for Interior Design
2.00 hrs lecture, 4.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-155A
Advisory: Concurrent with ART/ID/GA-163
Accepted For Credit: CSU
This course will introduce basic drafting techniques as related to
architectural working drawings for interior design. Construction
materials and procedures will be presented. Repeatable = 3
times (GC)

ART-155B  CAD for Interior Design
2.00 hrs lecture, 7.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-155B
Prerequisite: ART/ID-155A or equivalent
Accepted For Credit: CSU
This course focuses on the fundamentals of computer-aided
drafting as related to interior design and architectural drawings
through understanding concepts rather than memorizing
commands. Drawing skills are learned and developed by
applying these concepts to solve practical laboratory problems.
Repeatable = 3 times (GC)

ART-156  Architectural Modelmaking for Interior Design
2.00 hrs lecture, 4.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-156
Accepted For Credit: CSU
Scale models will be developed in this class for presenting and
studying architectural and interior design. A wide range of
materials and processes will be explored. Repeatable = 3 times
(GC)

ART-157  Professional Practice for Interior Design
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ID-157
Accepted For Credit: CSU
This class introduces basic business practices for interior
designers. It also includes an overview of career paths, business
planning and organization, professional associations, marketing,
sales, wholesale resource development, contractual obligations,
and ethics. It is designed for people preparing to enter the field
of interior design. (GC)

ART-158  Textiles
2.00 hrs lecture, 4.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-158
Accepted For Credit: CSU
Students in this course will study the physical and chemical
properties of fibers, fabrication systems for yarns and fabrics, the
technology of fabric dyes, and decorative processes and finishes.
The application of these principles to interior furnishings and
appointments are an integral part of the laboratory experience
for this course, and provide practical applications for students of
interior design. (GC)

ART-159A  Applied Design: Residential Lighting
1.00 hrs lecture
Units: 1.00
Cross-referenced Course: ID-159A
Accepted For Credit: CSU
This course will present an overview of basic considerations
necessary to plan, choose, and place lighting fixtures throughout
a home to help define space, articulate atmosphere, direct
attention, and facilitate activities. Repeatable = 3 times (GC)

ART-159B  Applied Design: Color for the Home
1.00 hrs lecture
Units: 1.00
Cross-referenced Course: ID-159B
Accepted For Credit: CSU
This course will explore various approaches that may be
followed to arrive at color schemes that are satisfying,
comfortable, and exciting. Repeatable = 3 times (GC)
ANNOUNCEMENT OF COURSES

ART-160A Computer Graphics I
3.00 hrs lecture, 9.00 hrs lab
Units: 4.00
Cross-referenced Course: BA-160A, GA-160A, CS-160A
Advisory: ART-104A
Accepted For Credit: CSU

This course is an introduction to micro-computers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. Repeatable = 3 times (GC)

ART-160B Computer Graphics II
3.00 hrs lecture, 9.00 hrs lab
Units: 4.00
Cross-referenced Course: BA-160B, GA-160B, CS-160B
Prerequisite: GA/ART/BA/CS-160A or equivalent
Accepted For Credit: CSU

This course is a continuation of ART-160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a digital graphics work station. Students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 3 times (GC)

ART-161A Digital Graphics I
1.00 hrs lecture, 5.00 hrs lab
Units: 2.00
Cross-referenced Course: GA-161A, CAOT-161A
Accepted For Credit: CSU

This course is an overview of computer graphics on desktop computers for graphic designers, artists, typographers, and for business applications. This course will cover hardware and software including laser printers, ink jet printers, scanners, tablets, and bit-mapped and vector-based graphics programs. This course also covers design principles and business graphics. The course emphasis is on the creation of a portfolio of computer graphics drawings. Repeatable = 3 times (GC)

ART-161B Digital Graphics II
1.00 hrs lecture, 5.00 hrs lab
Units: 2.00
Cross-referenced Course: GA-161B, CAOT-161B
Prerequisite: GA/ART/CAOT-161A or equivalent
Accepted For Credit: CSU

This course is a continuation of ART-161A. The emphasis in this course is on developing intermediate and advanced skills needed to set up and operate a computer graphics work station. Students complete projects of their choice using complex graphics software, scanners, tablets, and printers. The course emphasis is on the continued development of a portfolio of computer images. Repeatable = 3 times (GC)

ART-162 Digital Graphics Lab
3.00 hrs lab
Units: 1.00
Cross-referenced Course: GA-162

This course is a lab component for all Graphic Arts/Computer Graphics courses. Students will produce digital graphic projects for all art and graphic design classes. Repeatable = 3 times (CR)

ART-163 Digital Arts Lab-Macintosh
1.50 hrs lab
Units: 0.50
Cross-referenced Course: GA-163, ID-163

This course is a lab component for all courses taught on the Macintosh and on drafting equipment in these areas: Art, Graphic Arts/Computer Graphics, Photography, and Interior Design. Students will produce digital graphic and drafting projects for art related classes. Repeatable = 3 times (CR)

ASTRONOMY
Division: Science, Technology, and Academic Affairs

ASTR-101A General Astronomy of the Solar System
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC

This course is an introduction to the history, principles, methods, and fundamentals of the astronomy of the Solar System. (GC)

ASTR-101B General Astronomy Beyond the Solar System
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC

This course is an introduction to the fundamental principles and the dynamics of the astronomy beyond the Solar System. (GC)

ASTR-102 General Astronomy Lab
3.00 hrs lab
Units: 1.00
Corequisite: ASTR-101A or ASTR-101B
Accepted For Credit: CSU & UC

This is an introductory lab course covering the methods and fundamentals of astronomy through inquiry and experiments. (GC)

ASTR-365 Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or Counselor Referral

This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (GC)

ATHLETICS
Division: Student Services

ATHL-220 Women's Volleyball
10.00 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
Accepted For Credit: CSU & UC

These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL-222 Women's Soccer
10.00 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
Accepted For Credit: CSU & UC

These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)
**ATHL-223**

**Men's Soccer**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. (GC)

**ATHL-224**

**Women's Waterpolo**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to complete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-225**

**Men's Waterpolo**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to complete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-226**

**Women's Basketball**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to complete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-227**

**Men's Basketball**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-228**

**Women's Swimming**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-229**

**Men's Swimming**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-230**

**Women's Softball**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-231**

**Men's Baseball**

- 10.00 hrs lab
- Units: 3.00
- Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan
- Accepted For Credit: CSU & UC
- These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-232**

**Women's Tennis**

- 10.00 hrs lab
- Units: 3.00
- Accepted For Credit: CSU
- Advisory: Medical check within last year recommended
- These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-233**

**Men's Tennis**

- 10.00 hrs lab
- Units: 3.00
- Accepted For Credit: CSU
- These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

**ATHL-262**

**Theory of Volleyball**

- 1.00 hrs lecture, 3.00 hrs lab
- Units: 2.00
- Limitation on enrollment; must be an active member of an intercollegiate athletic team
- Accepted For Credit: CSU & UC
- This course is a study of fundamental offensive and defensive techniques and strategies in volleyball as they apply to teaching and/or coaching. This course includes the principles of how to scout games, critique skills of athletes, and plan a practice schedule. (GC)

**ATHL-264**

**Theory of Soccer**

- 1.00 hrs lecture, 3.00 hrs lab
- Units: 2.00
- Limitation on enrollment; must be an active member of an intercollegiate athletic team
- Accepted For Credit: CSU & UC
- Class designed for the potential soccer coach. Repeatable = 1 time (GC)

**ATHL-265**

**Theory of Basketball**

- 1.00 hrs lecture, 3.00 hrs lab
- Units: 2.00
- Limitation on enrollment; must be an active member of an intercollegiate athletic team
- Accepted For Credit: CSU & UC
- This course is designed for students who wish to learn fundamental offensive and defensive techniques and strategies in basketball as they apply to teaching and/or coaching. The course will also include the principles of scouting, critiquing skills of athletes, and planning a practice schedule. Repeatable = 1 time (GC)
ATHL-266 Theory of Softball
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Limitation on enrollment; must be an active member of an intercollegiate athletic team
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive techniques and strategies as they apply to teaching and/or coaching softball. This course includes the principles of how to scout games, critique skills of athletes, and plan a practice schedule. Repeatable = 1 time (GC)

ATHL-267 Theory of Baseball
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Limitation on enrollment; must be an active member of an intercollegiate athletic team
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive techniques and strategies as they apply to teaching and/or coaching baseball. This course includes the principles of how to scout games, critique skills of athletes, and plan a practice schedule. Repeatable = 1 time (GC)

BIOL-101A Principles of Biology – Molecular and Cellular
3.00 hrs lecture, 6.00 hrs lab
Units: 5.00
Prerequisite: CHEM-101A or equivalent with a grade of C or better
Advisory: Eligible for ENGL-151B and ENGL-163; BIOL-130
Accepted For Credit: CSU & UC
This course is an introduction to biological principles for biology and health profession majors. Topics emphasized are basic biochemistry, bioenergetics, cell structure and function, genetics, and the diversity of life in kingdoms Monera, Protista, and Fungi. (GR) (CAN BIOL 2 or BIOL-101A + BIOL-101B = CAN BIOL SEQ A)

BIOL-101B Principles of Biology – Organisms and Systems
3.00 hrs lecture, 6.00 hrs lab
Units: 5.00
Prerequisite: BIOL-101A or equivalent with a grade of C or better
Advisory: Eligible for ENGL-151B and ENGL-163;
Accepted For Credit: CSU & UC
This course is an introduction to biological principles for biology and health professions majors. Topics emphasized include evolution, systematics, prokaryote and eukaryote diversity (including a survey of the Kingdoms Protista, Fungi, Animalia, and Plantae), anatomy and physiology of animals, plant structure and function, and ecology. This course completes the lower-division core curriculum in biology for biology and pre-health professions majors. (GR) (BIOL-101A + BIOL-101B = CAN BIOL SEQ A)

BIOL-103A Human Anatomy and Physiology
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: Completion within past three years of BIOL-130 and CHEM-106A or 109 with a grade of C or better
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course will cover homeostasis, biochemistry, histology, osteology, excitable membrane physiology, muscle structure and physiology, the central nervous system, reflexes and integration of neural pathways, the autonomic nervous system, sensory systems, endocrinology, reproduction, and human development. (GR) (BIOL-103A + BIOL-103B = CAN BIOL SEQ B)

BIOL-103B Human Anatomy and Physiology
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: BIOL-103A with a grade of C or better
Accepted For Credit: CSU & UC
This course includes the structural and functional relationships of the human body. The excretory, nervous, endocrine, and reproductive systems are treated. (GR) (BIOL-103A + BIOL-103B = CAN BIOL SEQ B)

BIOL-104 Basic Human Anatomy and Physiology
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: BIOL-130 or equivalent within past 3 years
Accepted For Credit: CSU & UC
This course surveys the structure and function of the major organ systems of the human body. Emphasis is on homeostasis and regulatory mechanisms. Animal dissection and cadaver demonstrations will be presented. (GR)

BIOL-105 Heredity, Evolution, and Society
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to the principles of genetics and evolution for non-science majors. The mechanisms of heredity and evolution will be studied with an emphasis on the human aspect of both subjects. (GC)

BIOL-106 Microbiology
3.00 hrs lecture, 6.00 hrs lab
Units: 5.00
Prerequisite: BIOL-130 or equivalent with grade of C or better; CHEM-106A or CHEM-109 or equivalent with grade of C or better
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course presents basic microbiology with an emphasis on the medical significance of microorganisms, methods to study and control microbes, and the principles of aseptic technique. (GR) (CAN BIOL 14)

BIOL-107 Microbiology and Infectious Diseases
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is directed toward understanding the biology of microorganisms, their relationship to disease, their control, and the human defense system. (GR)
BIOL-108 Human Ecology
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Human Ecology is an interdisciplinary, general education course that identifies problems created by man’s modification of his environment, presents solutions to these problems, and offers appropriate alternatives. (GC)

BIOL-109 Biology of Sexual Reproduction
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course presents anatomy, physiology, and behavioral aspects of human sexual reproduction with emphasis on functional mechanisms. (GC)

BIOL-114A Introduction to Plant Biology
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Cross-referenced Course: BIOT-114A
Accepted For Credit: CSU & UC
This is elective in the Biotechnology Certificate program or for students with an interest in plants and biotechnology. This course provides a basic understanding of plants, their structure, their physiology, their growth and development, their role in our food supply, and how genetic engineering has impacted our foods. (GR)

BIOL-114B Applications in Plant and Food Biotechnology
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Cross-referenced Course: BIOT-114B
Prerequisite: BIOT-114A or BIOL-114A
Accepted For Credit: CSU
This is an elective in the Biotechnology Certificate Program, where students are trained for positions in the biotechnology industry. This course builds upon the basic skills learned in BIOT-114A and provides plant and food biotechnology specific skills and knowledge. Topics include plant genetic engineering, the growth and development of plants in culture and the greenhouse, as well as genetic engineering of plants and microbes involved in food production. (GR)

BIOL-130 Introduction to Biology
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to biological principles for non-science majors. Fundamental biological principles are covered including cell structure and function, ecology, evolution, genetics, taxonomy, and reproduction. (GC)

BIOL-131D Review of Biological Concepts
1.00 hrs lecture
Units: 1.00
Corequisite: Concurrent enrollment in the appropriate biology classes
This course is designed to review course content in selected Biology course(s). This course introduces study techniques and more in-depth discussions of basic biological principles in the selected courses. Repeatable = 3 times (CR)

BIOL-140 Sierra Nevada Natural History
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
An introduction to the plants, animals, and geology of the Sierra Nevada. A three-day camping and learning experience in the Sierra Nevada will take place at the end of the semester. Emphasis is on learning the common plants and animals of the region. Recommended for anyone interested in natural history or ecology of the Sierra Nevada. (GC)

BIOL-141 Marine Biology
3.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B
Accepted For Credit: CSU & UC
This course covers basic concepts of marine ecosystems including oceanographic principles, ecology, and a survey of marine habitats and diversity of marine organisms. Will include two field trips to pacific tidal zones and to San Francisco Bay ecosystems. (GR)

BIOL-142 Environmental Biology
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This lecture and lab course is an introduction to the biological sciences focusing on diversity, organismal interactions with their environment and with other organisms (ecology), the effects humans have had on biological diversity and ecosystems, and efforts to protect species and their habitats (conservation). (GC)

BIOL-190 Scientific Research Methodology
0.50 hrs lecture, 1.50 hrs lab
Units: 1.00
Cross-referenced Course: CHEM-190, GEOL-190, ENGL-190, PHYS-190, CS-190
Prerequisite: Consent of instructor
Advisory: MATH-188; major in science, technology, engineering, or math
This course introduces students to scientific research methods. It includes hypothesis writing, variable identification, experimental design, literature reviews, data interpretation and analysis, research proposal preparation, and presentation of scientific papers. (GR)

BIOL-365 Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)
BIOTECHNOLOGY

Division: Science, Technology, and Academic Affairs

BIOT-100 Biotechnology and Society
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and MATH-151
Accepted For Credit: CSU & UC
Introduction to the scientific principles and techniques of molecular biology and biotechnology, including recombinant DNA technology and gene cloning, recombinant protein design, and analysis of biomolecules. Discussion of technical, ethical, and safety concerns presented by medical, agricultural, pharmaceutical, and forensic applications of biotechnology. (GR)

BIOT-105 Introduction to Cell and Molecular Biology
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: MATH-151, ENGL-151B
Accepted For Credit: CSU
This course introduces basic laboratory research methods (e.g., measuring volume and mass, preparing solutions, using micropipetters, operating a spectrophotometer), and introductory concepts of biology (e.g., chemistry of life, cell structure and function, and classic and modern genetics) to students who are interested in biotechnology, yet have no science background. Also included are strategies to improve success in the classroom such as notetaking, studying, test taking, and other techniques. Students are introduced to the scientific method; they use computers to prepare written reports; they maintain a professional quality laboratory notebook; and they will become familiar with the appropriate behavior and basic skills required in a modern, biological laboratory. Repeatable = 2 times (GR)

BIOT-106A Introduction to Bio – Manufacturing Instruments and Measurements
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: ENGL-151B, MATH-151
This course introduces students to basic laboratory research methods and concepts in biotechnology. Lab skills include measuring volumes, measuring mass, using micropipetters, using pH meters, spectrophotometers, using the microscope to study cells, using Autoclave, sterile techniques, media prep, aseptic culture of microbial colonies, protein concentration, and bacterial transformation. (GR)

BIOT-106B Current Lab Methods in Bio – Pharmaceutical Industry and Standard Operating Procedures
3.00 hrs lecture, 6.00 hrs lab
Units: 5.00
Prerequisite: BIOT-106A
Corequisite: BIOT-131D, BIOT-106M
This course builds upon lab skills in BIOT-106A, providing theoretical background and advanced applications. Lab skills include protein purification techniques, dialysis, chromatography, electrophoresis, western blot analysis, serum fractionation, IgG purification, protein A column, ELISA, DNA analysis, restriction digestion, and agarose gel electrophoresis. (GR)

BIOT-106M Math Applications in Biotechnology
2.00 hrs lecture
Units: 2.00
Corequisite: BIOT-106B, BIOT-131D
This course includes math operations, metric system, relevance of chemistry math in biotechnology, graphing, MS Excel, description of data, basic statistics, and computer applications in data analysis. (GR)

BIOT-110A Biotechnology Lab I
1.00 hrs lecture, 6.00 hrs lab
Units: 3.00
Prerequisite: BIOT-105, CHEM-109 with grades of B or better
Accepted For Credit: CSU
This course introduces students to basic laboratory research methods and concepts in biotechnology. Lab skills developed include the use of basic measuring devices, preparing solutions and dilutions, aseptic culturing of microbes, separation technologies of electrophoresis (agarose polyacrylamide), chromatography (gel filtration, ion exchange, affinity, hydrophobic interactive, FPLC), extraction of DNA, DNA restriction digestion, PCR, DNA sequencing, STR genotyping for human identification, and 2-D gel electrophoresis. (GR)

BIOT-110B Advanced Biotechnology Theory and Applications
3.00 hrs lecture
Units: 3.00
Prerequisite: BIOT-105, CHEM-109
Advisory: MATH-159 and SPCH-101
Accepted For Credit: CSU
This course is part of the Biotechnology Certificate Program. Students are trained for entry-level positions in biotechnology. This course builds upon lab skills learned in BIOT-110A, providing theoretical background and advanced applications. Topics include cell culture, protein expression and purification, laboratory safety, PCR, immunology and immunological techniques, and applications such as gene therapy and medical forensics. Repeatable = 2 times (GR)

BIOT-111 Advanced Biotechnology Lab
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Prerequisite: BIOT-110A and BIOT-110B with a grade of B or better
Accepted For Credit: CSU
This course is part of the Biotechnology Certificate Program and it builds upon lab skills learned in BIOT-110A and the theoretical base established in BIOT-110B. BIOT-111 provides students with hands-on laboratory experiences in molecular biology. Students will have an opportunity to use the tools of biotechnology and molecular biology to study biological systems. Lab techniques mastered in this course include isolation and quantification of DNA, gene amplification using PCR, PCR primer design and optimization, cloning and gene mapping, cell culture, RNA extraction and purification, and rTPCR. Repeatable = 2 times (GR)

BIOT-112 Introduction to Bioinformatics
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Advisory: CS-101L
Accepted For Credit: CSU
This course builds upon lab skills in BIOT-110B, providing theoretical background and advanced applications. Lab skills include DNA database searches including GenBank, BLAST, PubMed, and DNA sequence analysis. Microarray data and analysis will be introduced. Repeatable = 2 times (GR)
BIOT-114A  Introduction to Plant Biology  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Cross-referenced Course: BIOL-114A  
Accepted For Credit: CSU & UC  
This course provides a basic understanding of plants, their structure, their physiology, their growth and development, their role in our food supply, and how genetic engineering has impacted our foods. (GR)

BIOT-114B  Applications in Plant and Food Biotechnology  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Cross-referenced Course: BIOL-114B  
Prerequisite: BIOT-114A or BIOL-114A  
Accepted For Credit: CSU  
This is an elective in the Biotechnology Certificate Program, where students are trained for positions in the biotechnology industry. This course builds upon the basic skills learned in BIOT-114A and provides plant and food biotechnology specific skills and knowledge. Topics include plant genetic engineering, the growth and development of plants in culture and the greenhouse, as well as genetic engineering of plants and microbes involved in food production. (GR)

BIOT-115  Animal Cell Culture Techniques  
2.00 hrs lecture, 6.00 hrs lab  
Units: 4.00  
Advisory: Understanding of basic laboratory safety guidelines, basic math skills, aseptic techniques, understanding of cell biology  
Accepted For Credit: CSU  
This course introduces animal cell culture methods, including sterile technique, media preparation, establishment of primary and secondary cell lines, use of bioreactor, quality control, and validation. This course provides students with techniques and concepts needed to work in the biotechnology industry. The course consists of lecture and hands-on laboratory procedures utilized in bio-manufacturing. Successful students will be prepared to work in cell culture, manufacturing, and quality control as technicians. Repeatable = 2 times (GC)

BIOT-120  Introduction to Scanning Electron Microscopy (SEM)  
3.00 hrs lab  
Units: 1.00  
Prerequisite: BIOL-130 with a grade of B or better  
Advisory: BIOL-101A  
Accepted For Credit: CSU  
Students will learn the principles of, and the procedures associated with, the microscope. Biological specimens will be collected and prepared for microscopic viewing. Students will also use the Scanning Electron Microscope (SEM). Repeatable = 2 times (GR)

BIOT-121  Biotechnology Careers  
1.00 hrs lecture  
Units: 1.00  
Corequisite: BIOT-110A, BIOT-110B, BIOT-111, or BIOT-112  
Advisory: Eligible for ENGL-151B and MATH-151  
Accepted For Credit: CSU  
This course is designed to offer an in-depth view of the emerging careers in Biotechnology including agricultural, environmental, forensics, industrial, pharmaceutical, and medical biotechnology careers. Students will have an opportunity to meet many professionals in various biotechnology positions and to discuss the range of career options available, and educational training required, for each career. Repeatable = 1 time (CR)

BIOT-122  Introduction to Nanotechnology  
3.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
Nanotechnology explores exciting potential applications of science pertaining to tiny structures. Students will be introduced to fundamentals of biology, chemistry, and engineering. (GC)

BIOT-131  Computing Concepts in Biotechnology  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CS-131  
Accepted For Credit: CSU  
This course introduces the basic computing concepts, the most commonly used computer algorithms, and programming languages in biotechnology. (GC)

BIOT-132  DNA Computing  
1.00 hrs lecture  
Units: 1.00  
Cross-referenced Course: CS-132  
Accepted For Credit: CSU  
This course introduces DNA-related matters, the basics of biochemistry, language, and computing theory. (GC)

BIOT-133  SAS Programming  
2.50 hrs lecture, 1.50 hrs lab  
Units: 3.00  
Cross-referenced Course: CS-133  
Accepted For Credit: CSU  
The SAS system has become the international standard for data management, manipulation, storage, retrieval, and statistical analysis. This course offers a rigorous exposure to statistical bio-data analysis by using core elements of the SAS system programming language and procedures. (GC)

BIOT-141B  SAS Graphing and ODS  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Cross-referenced Course: CS-141B  
Advisory: CS-133 or BIOT-133  
Accepted For Credit: CSU  
This course introduces SAS/GRAPH and ODS. Learn how to design, construct, and display customized graphs quickly and efficiently. Learn how to create a data set from the results of most SAS procedures and build custom reports. Repeatable = 1 time (GC)

BIOT-143  Advanced SAS Programming  
2.50 hrs lecture, 1.50 hrs lab  
Units: 3.00  
Cross-referenced Course: CS-143  
Advisory: BIOT-133/CS-133 or some experience in SAS programming  
Accepted For Credit: CSU  
This course provides students with a basic understanding of macro programming and SQL procedure in SAS software. SQL and macro programming can provide more flexibility and power in data management and data analysis. (GC)
BROADCASTING
Division: Fine Arts, Business, and Broadcasting

BRDC-120 Introduction to Electronic Media
2.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU
This course introduces the history, structure, function, economics, content, and evolution of radio, television, film, and the Internet, including traditional formats and emerging electronic media delivery systems. The social, political, regulatory, ethical, and occupational impact of the electronic media are studied. (GR)

BRDC-123A Radio Operations I
1.00 hrs lecture, 6.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course is an introduction to the technical operation of a radio broadcast facility. Applied concepts include preparing and producing material for broadcast, gathering and delivering local news on the air, operation of KOHL Radio by FCC standards, and creating an effective audition tape. Repeatable = 1 time (GR)

BRDC-123B Radio Operations II
1.00 hrs lecture, 6.00 hrs lab
Units: 3.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU
This course allows students to refine basic skills introduced in BRDC-123A. Advanced digital and analog production techniques are introduced. Additional areas of concentration include management and operations software systems, aircheck analysis, market overviews, and creating an effective employment package. Repeatable = 1 time (GR)

BRDC-124 Broadcast Internships
10.00 hrs lab
Units: 3.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU
This course is for students who will intern at Bay Area broadcast stations, learning various aspects of the radio broadcasting business. Repeatable = 3 times (GR)

BRDC-127A Radio Broadcast Lab
3.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU
This course focuses on laboratory practice utilizing knowledge and techniques gained in the radio programming and production courses. KOHL Radio serves as the operational lab. (GR)

BRDC-127C Radio Broadcast Lab
3.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU
This course focuses on laboratory practice utilizing knowledge and techniques gained in the radio programming and production courses. KOHL radio serves as the operational lab. (GR)

BRDC-127D Radio Broadcast Lab
3.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU
This course focuses on laboratory practice utilizing knowledge and techniques gained in the radio programming and production courses. KOHL Radio serves as the operational lab. (GR)

BRDC-128 Radio Programming and Marketing
2.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU
This course provides an overview of radio programming methods, strategies, promotion and evaluation techniques, and outlines the responsibilities of the professional radio program director. Repeatable = 1 time (GR)

BRDC-129 Digital Radio Studio Systems
2.00 hrs lecture, 1.00 hrs lab
Units: 2.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU
Students taking this course are introduced to advanced operational techniques of digital radio studio systems. Lab assignments are completed in the KOHL studios using the RCS Master Control platform. Repeatable = 1 time (GR)

BRDC-130 Broadcast Announcing
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Course concentration is on projection of personality, voice control, pronunciation, and related skills necessary for communication of ideas and information via broadcast. Students will learn important microphone techniques and put them to use under simulated broadcast circumstances. Repeatable = 1 time (GR)

BRDC-132 Studio Recording
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Cross-referenced Course: MUS-113
Accepted For Credit: CSU
This course is an introduction to the recording studio. The course follows the path of audio signals through the microphone, mixer, signal processors, tape recorder, and monitoring stations. The course explores various types of microphones, the functions of mixing boards, the characteristics of signal processors, and recording techniques. (GC)
ANNOUNCEMENT OF COURSES

BRDC-134 Final Cut Pro Editing
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students learn the basics of editing a television package in the digital medium. Students will be trained in the use of Final Cut Pro non-linear editing system under the guidance of broadcast industry professionals. The course examines how cutting edge non-linear editing technology has its roots in film editing, explores similarities between the two, and contrasts both to video editing. The course covers the history of video storage media from 2" AMPEX tape through BETA, current formats including DV and HD. Students also develop storytelling skills. Repeatable = 1 time (GR)

BRDC-135 After Effects for Television
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: BRDC-134 or BRDC-138
Accepted For Credit: CSU
Students learn advanced techniques used in post-production of commercial television programming and commercial film production. Students work with a variety of software programs used in television sitcom post-production such as Adobe After Effects and Boris, under the guidance of broadcast industry professionals. Students learn to work with outside source material. Repeatable = 1 time (GR)

BRDC-136 Digital Video and Lighting
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students learn the basics of shooting and editing a television package in the digital medium. Students will have the opportunity to learn to operate a DVCAM and AVID non-linear editing system under the guidance of broadcast industry professionals. The course examines how cutting edge non-linear editing technology has its roots in film editing, explores similarities between the two, and contrasts both to video editing. The course covers history of video storage medium from 2" AMPEX tape through BETA, current formats including DV and HD. Students also learn camera techniques for video production and news gathering, how to shoot interviews, video packages, and develop storytelling skills. Repeatable = 1 time (GR)

BRDC-137 Video Field Production
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: BRDC-136
Accepted For Credit: CSU
Students learn advanced techniques of shooting video for commercial television news. Students use DVCAM and BETACAM under the guidance of broadcast industry professionals. The course covers current trends in broadcast industry and examines strengths and weaknesses of digital video versus analog. The course includes teaching of advanced techniques of video production, lighting, and audio skills, both on location and in studio. Repeatable = 1 time (GR)

BRDC-138 AVID Editing
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students learn the basics of editing a television package in the digital medium. Students will be trained in the use of AVID non-linear editing system under the guidance of broadcast industry professionals. The course examines how cutting edge non-linear editing technology has its roots in film editing, explores similarities between the two, and contrasts both to video editing. The course covers the history of video storage medium from 2" AMPEX tape through BETA, and current formats including DV and HD. Students also develop storytelling skills. Repeatable = 1 time (GR)

BRDC-139 Advanced AVID Editing
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: BRDC-138
Accepted For Credit: CSU
Students learn advanced non-linear editing techniques used in production and post-production of commercial television programming and commercial television news. Students work with a variety of software programs used in television sitcom post-production, including Adobe AfterEffects and Boris Red, under the guidance of broadcast industry professionals. Students learn to work with audio effects and outside source material and how to export video in a variety of formats including JPEG, CD, BETA, and DV. Repeatable = 1 time (GR)

BRDC-141 Live TV Newscast
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students participate in the production of a live, weekly newscast. Students will learn the fundamentals of television news production, including both technical and air-talent functions. Repeatable = 2 times (GR)

BRDC-142 Live TV Studio Production
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students enrolled in this course will participate in the production of a variety of live TV broadcasts. Students will learn the basic fundamentals of television production as it pertains to non-newscast formats. Positions for students include both technical and air-talent personnel. Repeatable = 1 time (GR)

BRDC-148 Directing Live Television
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: BRDC-141 or BRDC-142
Accepted For Credit: CSU
This is an advanced course for students wishing to pursue directing and technical directing for television. Students will participate in all aspects of preparing a television news program for live broadcast. Repeatable = 3 times (GR)

Photo courtesy of College Relations.
BUSINESS ADMINISTRATION

Division: Fine Arts, Business, and Broadcasting

BA-101A Principles of Accounting
5.00 hrs lecture
Units: 5.00
Advisory: Eligible for ENGL-151B; concurrent enrollment in BA-123
Accepted For Credit: CSU & UC
This course introduces accounting theory, procedures, and practices relating to service and merchandising operations. (GC) (CAN BUS 2 or BA-101A + BA-101B = CAN BUS SEQ A)

BA-101B Principles of Accounting
5.00 hrs lecture
Units: 5.00
Prerequisite: BA-101A with grade of C or better
Accepted For Credit: CSU & UC
This course is an introduction to managerial accounting including the analysis and interpretation of accounting data to aid management. (GC) (CAN BUS 4 OR BA-101A + BA-101B = CAN BUS SEQ A)

BA-102A Principles of Economics-Macroeconomics
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU & UC
Introduction to Macroeconomics. The topics explored include supply and demand, government spending, taxation, business cycles, fiscal policy, monetary policy, money and banking system, inflation, unemployment, national income, and international economics. (GC) (CAN ECON 2)

BA-102B Principles of Economics-Microeconomics
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Introduction to Microeconomics. The topics explored include demand, supply, market structure, pricing policies, labor market, elasticity and its application, public goods and common resources, and environmental policy. (GC) (CAN ECON 4)

BA-104 Computer Applications in Accounting
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: BA-101A or BA-106
Accepted For Credit: CSU
This course covers the application of accounting theory on the computer using general ledger accounting software and spreadsheet software. (GC)

BA-105 Income Tax Principles
4.00 hrs lecture
Units: 4.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course provides an analysis of the principles, procedures, and terminology of income taxes on individual taxpayers. (GC)

BA-106 Applied Accounting
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151A; concurrent enrollment in BA-123
Accepted For Credit: CSU
This course covers fundamentals of accounting theory and applications. (GC)
BA-107  Cost and Managerial Accounting  
4.00 hrs lecture  
Units: 4.00  
Prerequisite: BA-101A and BA-101B  
Accepted For Credit: CSU  
This course presents the theory, procedures, and practice relating to material, labor, and factory overhead production costs, including job order, process, and standard cost systems. It also includes analytical skills used to interpret accounting data to be used by management in planning and controlling business activities. (GC)  

BA-109A  Computerized Accounting for Personal Finance  
1.25 hrs lecture, 0.75 hrs lab  
Units: 1.50  
Advisory: Concurrent enrollment in BA-101A or BA-106  
This course is designed to prepare students for employment in a home-based or small business office. Quicken, a program for organizing and managing financial information and performing online banking and bill payment in small business and home-based offices, will be presented. (GC)  

BA-109B  Computerized Accounting for Small Business  
1.25 hrs lecture, 0.75 hrs lab  
Units: 1.50  
Advisory: Concurrent enrollment in BA-101A or BA-106  
This course is designed to meet the accounting needs of a small business. A widely-used software package (such as QuickBooks) will be presented. (GC)  

BA-115  Career Communication  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: SPCH-115  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
Develop vital communication skills for global and diverse professional environments including presentational skills, interviewing, meeting management, small group communication, and leadership skills. (GC)  

BA-116  Business English and Communication  
4.00 hrs lecture  
Units: 4.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course reviews the fundamentals of English grammar, punctuation, and sentence structure from a business approach. Writing skills for clear and effective business communication are developed through letters and reports. (GC)  

BA-121A  Developing Your Business Plan  
0.50 hrs lecture  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
Business plan elements will be covered: financial statements, marketing, and competitive strategies. (GC)  

BA-121B  Legal Aspects of Small Business  
0.50 hrs lecture  
Units: 0.50  
Advisory: Eligible for ENGL-151B & ENGL-163  
Legal aspects of starting and operating a small business are studied. (GC)  

BA-123  Math for Accounting and Business  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and MATH-151  
Accepted For Credit: CSU  
This course focuses on methods of problem interpretation and solving of common business calculations. Problems such as taxes, interest, depreciation, stocks, and insurance are covered by means of lecture and individual operations of calculators and computers. (GC)  

BA-125  Introduction to Business  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course examines the purposes, organization, and major activities of business operations. Emphasis is placed on understanding relationships of business, government, and the consumer in a global economy. (GC)  

BA-126  Introduction to Marketing  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU & UC  
This course explores all fundamental aspects of marketing and the role marketing plays in the overall context of business. How markets develop, market segmentation and target marketing, the 4Ps of marketing (product, price, promotion, placement), and marketing theory and practice are examined in detail. (GC)  

BA-129  Introduction to Advertising  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This is a study of the economic, sociological, and psychological dimensions of consumer motivation and behavior. This introductory course explores the broad fundamentals of advertising. (GC)  

BA-139  Psychology in the Workplace  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: PSY-139  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course applies principles of psychology to the workplace. Topics include combination skills, stress, cultural diversity, teamwork, understanding self and others, motivation, leadership, and other factors crucial to functioning effectively in the workplace. (GC)  

BA-141A  Business Law  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A and ENGL-163  
Accepted For Credit: CSU & UC  
This is an introduction to law applicable to business including the legal environment of business, ethics, sustainability, contracts, agency, and sales law. This course also satisfies the real estate law requirement for the real estate certificate. (GC) (CAN BUS 8)
BA-141B More Components of Business Law
3.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A and ENGL-163
Accepted For Credit: CSU
This course is an introduction to some of the laws used in business. Areas that are covered in this course include crime, negotiable instruments, corporations, ethics, labor law, bankruptcy, international law, sustainability, trusts, and estates. (GC)

BA-141C An Introduction to International Law
3.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A and ENGL-163
Accepted For Credit: CSU
This course is an introduction to international business law, featuring trade (import and export), licensing agreements for the transfer and protection of patents, copyrights, trademarks and intellectual property (including franchising), and active foreign investment through mergers, acquisitions, and joint ventures. (GC)

BA-143 Sports Marketing
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: PE-243
Accepted For Credit: CSU
This course examines the application of the principles of promotion and marketing to the sport and fitness industry. The areas covered will include high school/collegiate athletics, professional sports, and the fitness club industry. (GC)

BA-144 Sports Management
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: PE-244
Accepted For Credit: CSU
This course provides an overview of professional sport management in North America. The political, historical, social, economic, and cultural impacts of sport management are explored. Topics will include team management, organizational administration, legal issues, public relations, and facility management. Students will become familiar with career opportunities in the sports management field. (GC)

BA-160A Computer Graphics I
3.00 hrs lecture, 9.00 hrs lab
Units: 4.00
Cross-referenced Course: ART-160A, GA-160A, CS-160A
Advisory: ART-104A
Accepted For Credit: CSU
This course is an introduction to computers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. (GC)

BA-160B Computer Graphics II
3.00 hrs lecture, 9.00 hrs lab
Units: 4.00
Cross-referenced Course: ART-160B, GA-160B, CS-160B
Prerequisite: ART/BA/GA/CS-160A or equivalent
Accepted For Credit: CSU
This course is a continuation of BA-160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. Students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 1 time (GC)

BA-166 Business Ethics
3.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This is an introduction to the reasoning and analytical skills needed to resolve moral issues faced in business. (GC)

BA-169 Investment Fundamentals
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and MATH-151
This course is an introduction to securities investment and includes a comprehensive study of stock exchanges and their function, over-the-counter markets, investment banking, and investment trusts. The study includes financial statements and their analysis, stock choice and selection, investment methods, technical market, and technical stock analysis. (GC)

BA-195A1 Work Experience Education – Vocational
4.20 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

BA-195A2 Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

BA-195A3 Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in a job directly related to a major. Units received are based on hours worked. (GC)

BA-195A4 Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)
BUSINESS SUPERVISION MANAGEMENT
Division: Fine Arts, Business, and Broadcasting

BSM-101 Fundamentals of Supervision
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers basic supervisory principles and practices: the supervisor’s job; politics/power; decision making; the functions of planning, organizing, and controlling; and quality control. (GC)

BSM-102 Interpersonal Relations in the Workplace
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers interpersonal communications, employee-employer relations, ethnic cultural awareness, conflict resolution, stress, and team development. (GC)

BSM-103 Management of Human Resources
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers principles and practices of human resources for first line and above managerial personnel; employment/industrial relations, equal employment opportunity, sexual harassment, training/development, wage/salary/benefit administration, job performance reviews, and safety/accident prevention. (GC)

BSM-105 Operations Management
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers operations management: materials/production/project management, safety, total quality management principles and practices. (GC)

BSM-106 Communication for Supervisors
3.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course covers the principles and practices of the theory of communications; listening, verbal, and non-verbal communication; group dynamics and presentation. (GC)

BSM-108 Leadership in Organizations
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers principles of power and politics; team decision-making/problem solving; motivation coaching and counseling; law, social responsibility, and business ethics. (GC)

BSM-195A1 Work Experience Education – Vocational
4.20 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

BSM-195A2 Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

BSM-195A3 Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

BSM-195A4 Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

CHEMISTRY
Division: Science, Technology, and Academic Affairs

CHEM-101A General Chemistry
3.00 hrs lecture, 6.00 hrs lab
Units: 5.00
Prerequisite: CHEM-102 and MATH-152 with a grade of C or better
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
CHEM-101A is a general college-level inorganic chemistry course designed for students majoring in biology, chemistry, engineering, pre-med, and other fields demanding rigorous scientific preparation. Topics covered include atomic theory, stoichiometry, chemical reactions, introductory thermochimistry, theories of bonding, and the properties of solids, liquids, gases, and solutions. (GR) (CAN CHEM 2 OR CHEM-101A + CHEM-101B = CAN CHEM SEQ A)

CHEM-101B General Chemistry
3.00 hrs lecture, 6.00 hrs lab
Units: 5.00
Prerequisite: CHEM-101A with a grade of C or better
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
CHEM-101B continues the study of chemistry taught in CHEM-101A. Theory and mathematical applications are emphasized. This course is designed for science-oriented majors including biology, chemistry, engineering, and pre-professional health. Topics include organic chemistry, kinetics, equilibrium, acids and bases, solubility, thermodynamics, electrochemistry, nuclear chemistry, and coordination compounds. (GR) (CAN CHEM 4 OR CHEM-101A + CHEM-101B = CAN CHEM SEQ A)
CHEM-102 **Preparation for General Chemistry**  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-151  
Accepted For Credit: CSU & UC  
This course is a preparatory chemistry course covering the fundamentals of modern inorganic chemistry with emphasis on problem solving. Topics include classification of matter, atomic and molecular structure, chemical formula and nomenclature, chemical equations and stoichiometry, thermochemistry and gaseous laws and solutions. Chemistry 102 is intended primarily as a preparation for students planning to take college level Chemistry 101A. This course is recommended for students who have been away from high school chemistry for more than two years or those whose previous chemistry background is inadequate for Chemistry 101A. (GR)

CHEM-106A **Principles of Chemistry**  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-151 or MATH-151A and MATH-151B or equivalent  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU & UC  
This is an introductory chemistry course for students in majors, which require chemistry other than CHEM-101A. It satisfies the general education requirements for non-science majors. (GR)  
(CAN CHEM 6 OR CHEM-106A + CHEM-106B = CAN CHEM SEQ B)

CHEM-106B **Principles of Chemistry**  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CHEM-106A with grade of C or better  
Accepted For Credit: CSU & UC  
This is an introductory chemistry course for students in majors, which require chemistry other than CHEM-101A. It satisfies the general education requirements for non-science majors. (GR)  
(CAN CHEM 8 OR CHEM-106A + CHEM-106B = CAN CHEM SEQ B)

CHEM-108 **Survey of Chemistry**  
3.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
This is a general education, non-lab course about the chemistry of everyday things. Some of the topics considered are food, medicine, petroleum, pollution, plastics, cosmetics, and poisons. The course gives information about atoms and structure to help students interpret everyday occurrences from a molecular point of view. Concepts, not calculations, are emphasized. The course is intended for non-science majors wishing to satisfy the General Education science requirement for CSU and UC transfer institutions. (GC)

CHEM-109 **Biochemistry for Health Science and Biotechnology**  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-151  
Accepted For Credit: CSU & UC  
This course covers basic concepts of chemistry and biochemistry as they apply to the human body. Enrollment is open to all students. No previous chemistry is required. CHEM-109 satisfies the requirements of nursing, biotechnology, and related majors that require one semester of chemistry. Students preparing to enroll in CHEM-101A should enroll in CHEM-106A. (GR)

CHEM-112A **Organic Chemistry**  
3.00 hrs lecture, 6.00 hrs lab  
Units: 5.00  
Prerequisite: CHEM-101B with a grade of C or better  
Accepted For Credit: CSU & UC  
CHEM-112A is the first semester of organic chemistry for science oriented, pre-professional health and pre-engineering students. This course includes a study of important organic molecules found in living systems and man-made molecules. The course is designed primarily for students who require a full year of organic chemistry, including multistep synthesis and heterocyclic compounds. (GR)

CHEM-112B **Organic Chemistry**  
3.00 hrs lecture, 6.00 hrs lab  
Units: 5.00  
Prerequisite: CHEM-112A with grade of C or better  
Accepted For Credit: CSU & UC  
CHEM-112B is the second semester of organic chemistry for science oriented, pre-professional health and pre-engineering students. This course includes a study of important organic molecules found in living systems and man-made molecules. This course is designed primarily for students who require a full year of organic chemistry, including multistep synthesis and heterocyclic compounds. (GR)

CHEM-131D **Review of Chemistry Concepts**  
1.00 hrs lecture  
Units: 1.00  
This course is designed to review the content in selected Chemistry course(s). It is an introduction to study techniques and more in-depth discussions of chemistry principles and problem solving. Repeatable = 3 times (CR)

CHEM-190 **Scientific Research Methodology**  
0.50 hrs lecture, 1.50 hrs lab  
Units: 1.00  
Cross-referenced Course: GEOL-190, BIOL-190, ENGI-190, PHYS-190, CS-190  
Prerequisite: Consent of instructor  
Advisory: MATH-188; major in science, technology, engineering, or math  
This course introduces students to scientific research methods. It includes hypothesis writing, variable identification, experimental design, literature reviews, data interpretation and analysis, research proposal preparation, and presentation of scientific papers. (GR)

CHEM-365 **Supervised Tutoring**  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)
### CHICANO STUDIES

Division: Humanities, Social Sciences, and Mathematics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Units</th>
<th>Cross-referenced</th>
<th>Advisory</th>
<th>Acceptance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS-101</td>
<td>Chicano Culture I</td>
<td>3.00</td>
<td>3.00</td>
<td>SOC-106</td>
<td>ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>This course examines the social, cultural, political, and economic heritage of the Chicanos and their contribution to American society. (GR)</td>
</tr>
<tr>
<td>CHS-102</td>
<td>Chicano History</td>
<td>3.00</td>
<td>3.00</td>
<td>HIST-112</td>
<td>ENGL-151B</td>
<td>ENGL-163</td>
<td>This course covers the development of Chicano history. Special emphasis will be placed upon the influence of Chicano history on contemporary institutions, particularly in the Southwest and California. (GC)</td>
</tr>
<tr>
<td>CHS-106A</td>
<td>Chicano Literature</td>
<td>3.00</td>
<td>3.00</td>
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<td>ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>This course offers an introduction to writing by Chicanos. Through performing in-depth studies of certain authors, the students will view literature as a reflection of Chicano life. (GC)</td>
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<tr>
<td>CHS-109</td>
<td>Barrio Fieldwork</td>
<td>3.00</td>
<td>3.00</td>
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<td>ENGL-101A</td>
<td>CSU</td>
<td>Field study observation of selected barrios, institutions, and agencies. (GR)</td>
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<tr>
<td>CHS-112</td>
<td>Contemporary Issues of Chicanas</td>
<td>3.00</td>
<td>3.00</td>
<td>ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>CSU</td>
<td>This course is an examination of the historical, social-economic, and political conditions which have shaped the lives of contemporary Chicanas in the United States. It will explore cultural patterns underlying race, class, and gender-based strategies and inequities as basic elements of contemporary social structure. (GC)</td>
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### CHINESE

Division: Humanities, Social Sciences, and Mathematics

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Cross-referenced</th>
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<th>Description</th>
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<tbody>
<tr>
<td>CHIN-101A</td>
<td>Elementary Mandarin Chinese I</td>
<td>5.00</td>
<td>5.00</td>
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<td>CSU &amp; UC</td>
<td>This course is an introduction to modern standard Chinese (Mandarin). Students will be taught to listen, speak, read, and write Chinese and study Chinese culture. (GR) (CAN CHIN 2)</td>
</tr>
<tr>
<td>CHIN-101B</td>
<td>Elementary Mandarin Chinese II</td>
<td>5.00</td>
<td>5.00</td>
<td>CHIN-101A</td>
<td></td>
<td>CSU &amp; UC</td>
<td>This course is a continuation of CHIN-101A. Students will continue to acquire listening, speaking, reading, and writing skills in Chinese (Mandarin) and will study Chinese culture. (GR)</td>
</tr>
<tr>
<td>CHIN-102A</td>
<td>Intermediate Mandarin Chinese I</td>
<td>5.00</td>
<td>5.00</td>
<td>CHIN-101B</td>
<td></td>
<td>CSU &amp; UC</td>
<td>This course is a continuation of CHIN-101B with emphasis on the four areas of listening, speaking, reading, and writing in Mandarin, as well as the study of Chinese culture with greater depth. (GR)</td>
</tr>
<tr>
<td>CHIN-102B</td>
<td>Intermediate Mandarin Chinese II</td>
<td>5.00</td>
<td>5.00</td>
<td>CHIN-102A</td>
<td></td>
<td>CSU</td>
<td>This course is a continuation of CHIN-102A with emphasis on the four areas of listening, speaking, reading, and writing in Mandarin, as well as the study of Chinese culture with greater depth. (GR)</td>
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<tr>
<td>CHIN-121A</td>
<td>Mandarin Chinese Conversation I</td>
<td>3.00</td>
<td>3.00</td>
<td>ENGL-151B</td>
<td></td>
<td>CSU</td>
<td>This course is an introduction to the study of speaking, reading, and writing the Chinese language (Mandarin) at the college level with emphasis on daily conversation in cultural contexts. (GC)</td>
</tr>
<tr>
<td>CHIN-121B</td>
<td>Mandarin Chinese Conversation II</td>
<td>3.00</td>
<td>3.00</td>
<td>CHIN-121A</td>
<td></td>
<td>CSU</td>
<td>This course is a continuation of CHIN-121A, an introduction to the study of speaking, reading, and writing the Chinese language (Mandarin) at the college level with emphasis on daily conversation in cultural contexts. (GC)</td>
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### COMPUTER APPLICATIONS AND OCCUPATIONAL TECHNOLOGY

Division: Science, Technology, and Academic Affairs

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<th>Cross-referenced</th>
<th>Advisory</th>
<th>Acceptance</th>
<th>Description</th>
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<tbody>
<tr>
<td>CAOT-101L</td>
<td>Computer Applications</td>
<td>1.50</td>
<td>2.00</td>
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<td>CSU &amp; UC</td>
<td>Topics covered in this course include programs in word processing, spreadsheets, database, presentation graphics, information management, and integration of all the above-mentioned programs. (GC)</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Description</td>
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<tr>
<td>CAOT-104</td>
<td>Basic Keyboarding</td>
<td>1.00</td>
<td>This self-paced introductory course develops basic keyboarding skills for students entering a variety of fields such as computer science, data processing, accounting, or any other occupation that utilizes a keyboard similar to a typewriter to input information. No typing applications will be covered. Repeatable = 3 times (CR)</td>
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<tr>
<td>CAOT-110A</td>
<td>Beginning Keyboarding</td>
<td>1.00</td>
<td>This self-paced course includes mastery of the keyboard with touch typing. Repeatable = 1 time (GC)</td>
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<tr>
<td>CAOT-110B</td>
<td>Beginning Keyboarding II</td>
<td>1.00</td>
<td>This self-paced course includes an introduction to business and personal letters, tabulation, and business reports. Repeatable = 3 times (GC)</td>
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<tr>
<td>CAOT-110C</td>
<td>Beginning Keyboarding III</td>
<td>1.00</td>
<td>CAOT-110C is the final course in a three-part series where students learn mastery of creating and formatting business documents. Repeatable = 3 times (GC)</td>
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<tr>
<td>CAOT-111</td>
<td>Intermediate Keyboarding</td>
<td>3.00</td>
<td>Advisory: CAOT-110C or one year high school typewriting This self-paced course includes improvement of basic skills, letter production, business forms, tabulated reports, and manuscripts. (GC)</td>
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<tr>
<td>CAOT-112</td>
<td>Advanced Keyboarding</td>
<td>2.00</td>
<td>Prerequisite: CAOT-111 or two years high school typing or equivalent This self-paced course includes production typing with emphasis on speed and accuracy in the preparation of business letters, legal forms, financial statements, and manuscripts. (GC)</td>
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<tr>
<td>CAOT-120</td>
<td>ESL and Basic Computer Skills (Part I)</td>
<td>1.50</td>
<td>This course combines language learning with training in basic computer skills. This course has been designed to help non-native speakers of English develop entry-level computer and communication skills. Not applicable to associate degree. Repeatable = 3 times (GC)</td>
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<tr>
<td>CAOT-121</td>
<td>ESL and Basic Computer Skills (Part II)</td>
<td>1.50</td>
<td>This is the second of two sequenced courses that combines language learning with training in basic computer skills. This course has been designed to help non-native speakers of English develop entry-level computer and communication skills. Not applicable to associate degree. Repeatable = 3 times (GC)</td>
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<tr>
<td>CAOT-134A</td>
<td>Beginning Microsoft Access</td>
<td>0.75</td>
<td>This is a beginning database course using Microsoft Access, which reviews basic database concepts and teaches beginning database skills. This course is the first of three sequencing courses in the Microsoft Office Suite. Repeatable = 2 times (GC)</td>
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<tr>
<td>CAOT-134B</td>
<td>Intermediate Microsoft Access</td>
<td>0.75</td>
<td>This is an intermediate database course using Microsoft Access, which reviews basic database concepts and teaches database skills. This course is the second of three sequencing courses in the Microsoft Office Suite. Repeatable = 1 time (GC)</td>
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<tr>
<td>CAOT-134C</td>
<td>Advanced Microsoft Access</td>
<td>0.75</td>
<td>This is an advanced database course using Microsoft Access, which reviews basic database concepts and teaches database skills. This course is the third of three sequencing courses in the Microsoft Office Suite. Repeatable = 2 times (GC)</td>
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<tr>
<td>CAOT-141</td>
<td>PowerPoint for Legal Professionals</td>
<td>3.00</td>
<td>This course teaches students how to use PowerPoint and apply its features toward a presentation in a legal environment. Repeatable = 2 times (GC)</td>
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<tr>
<td>CAOT-145</td>
<td>Microsoft Visual Basic for Applications</td>
<td>3.00</td>
<td>Learn to use Visual Basic for Applications (VBA) to develop customized Windows applications that can be integrated with the Microsoft Office Suite. Repeatable = 2 times (GC)</td>
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<td>CAOT-146</td>
<td>Computer Applications in Engineering</td>
<td>3.00</td>
<td>This course introduces basic computer skills necessary to perform tasks required in an introductory Engineering course. This course covers key concepts in MS Word, EXCEL, PowerPoint, Internet functions and netiquette. Repeatable = 1 time (GR)</td>
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<td>CAOT-147</td>
<td>Computer Applications in Biology</td>
<td>0.75</td>
<td>This course introduces basic computer skills necessary to perform tasks required for biology majors. This course covers key concepts in Excel, PowerPoint, and Access. (GR)</td>
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<td>CAOT-148</td>
<td>Computer Applications in Biotechnology</td>
<td>0.75</td>
<td>This course introduces basic computer skills necessary to perform tasks required in an introductory biotechnology course. This course covers key concepts in Excel, PowerPoint, and Access. Repeatable = 1 time (GR)</td>
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<td>CAOT-153</td>
<td>Introduction to Internet</td>
<td>3.00</td>
<td>This course is an introduction to the Internet. The course will describe the history and architecture of the Internet and will demonstrate how to use various services and tools of the Internet, including Web browsers and search engines, how to do legal research, cyberlaw, and knowledge of HTML. (GC)</td>
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CAOT-156  Microsoft Publisher  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an introduction to desktop publishing using Microsoft Publisher software. Students will produce the following documents: flyer, newsletter, brochure, business forms, and a simple web site. Repeatable = 1 time (GC)

CAOT-161A  Digital Graphics I  
1.00 hrs lecture, 5.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ART-161A, GA-161A  
Accepted For Credit: CSU  
This course is an introduction to the use of computer graphics software on desktop computers for computer designers, artists, typographers, and for business applications. Topics include using complex graphics hardware, scanners, tablets, and bit-mapped and vector-based graphics programs. The course also covers design principles and business graphics. The course emphasis is on the continued development of a portfolio of computer graphics drawings. Repeatable = 3 times (GC)

CAOT-164  Introduction to FrontPage  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Cross-referenced Course: CS-164  
Advisory: Eligible for ENGL-151B and ENGL-163; basic proficiency in Microsoft Word  
This is an introduction to Microsoft FrontPage software. FrontPage is a software application that allows the ability to create, view, and edit Web pages. It can be used to maintain an entire Web site. Repeatable = 1 time (GC)

CAOT-166  3D Drafting with AutoCAD  
2.50 hrs lecture, 1.50 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
This course introduces the basic drafting concepts and AutoCAD tools to create 2D drawings. (GC)

CAOT-167  2D Drafting with AutoCAD  
2.50 hrs lecture, 1.50 hrs lab  
Units: 3.00  
Advisory: CAOT-166  
Accepted For Credit: CSU  
This course introduces the advanced drafting concepts of AutoCAD for three dimensional designs and for connecting with other programs. (GC)

CAOT-172A  Beginning Word  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Advisory: Typing speed 40 wpm  
Students will use Word to develop a working knowledge of a word processing software program that includes editing text, formatting, saving, printing, spell check, thesaurus, tables, clipart, and exploring the Internet. Repeatable = 2 times (GC)

CAOT-172B  Intermediate Word  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Advisory: CAOT-172A or equivalent  
Students will learn more advanced applications of Word to prepare complex documents using columns, mail merge, macros, styles, outlines, footnotes, table of contents, fill-in forms, and charts. Repeatable = 2 times (GC)

CAOT-178  Mastering MS Applications in the Real World  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Advisory: CS-101L  
This course focuses on discipline-specific projects for Microsoft Office using Excel, PowerPoint, Access, and Word. Repeatable = 1 time (GC)

CAOT-187  PowerPoint Presentations  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an introductory course in creating presentations with Microsoft PowerPoint software on an IBM computer with mention of the MAC platform. Presentations – which include slides, lecture notes and handout pages – will be created, edited, and printed. Repeatable = 1 time (GC)

CAOT-188  Desktop Publishing with QuarkXpress  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Cross-referenced Course: GA-188  
Accepted For Credit: CSU  
This is an introductory course in Desktop Publishing (DTP) with QuarkXPress software. Business documents that contain text and graphics will be designed, created, edited, and printed. Repeatable = 1 time (GC)

CAOT-193B  Intermediate Excel  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an intermediate course in the use of microcomputer spreadsheets for business applications. Topics include basic commands, developing spreadsheet models, and using printing options. Repeatable = 1 time (GC)

CAOT-193A  Beginning Excel  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an introductory course in the use of microcomputer spreadsheets for business applications. Topics include using mixed cell references, large works sheets, simple database functions, charts, and working with multiple worksheets. Repeatable = 1 time (GC)

CAOT-193C  Advanced Excel  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Advisory: CAOT-193A; eligible for ENGL-151B, ENGL-163  
This is an advanced course in the use of Excel for business applications. Topics include working with multiple worksheets, examining cost-volume-profit relationships and “what if” analyses, importing files and tables, and retrieving data from the World Wide Web. Repeatable = 1 time (GC)

CAOT-194A  MS Office Advanced  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an advanced course in the use of Microsoft Office software for business applications. Topics include an introduction to Microsoft Word, Excel, Access, and PowerPoint. (GC)
CAOT-195A1 Work Experience Education – Vocational
4.20 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department
Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs
directly related to a major. Units received are based on hours
worked. (GC)

CAOT-195A2 Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department
Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs
directly related to a major. Units received are based on hours
worked. (GC)

CAOT-195A3 Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department
Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs
directly related to a major. Units received are based on hours
worked. (GC)

CAOT-195A4 Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Work Experience Education Department
Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs
directly related to a major. Units received are based on hours
worked. (GC)

CAOT-196 Business Office Software Applications
3.75 hrs lecture, 11.25 hrs lab
Units: 7.50
Advisory: Eligible for ENGL-151B and ENGL-163
This course will provide an accelerated intensive training
experience during which students will become proficient in the
latest office software application programs used in today’s
workplace. Topics include operating systems (Windows), word
processing (Word), spreadsheets (Excel), presentation graphics
(PowerPoint), database (Access), Internet, and job search skills.
Repeatable = 2 times (GC)

CAOT-365 Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It
assists students to develop a learning methodology in a subject.
It includes diagnosis and consultation with tutorial coordinator
and supervised tutoring by part-time instructional aides and/or
student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)

**COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY**

Division: Science, Technology, and Academic Affairs

CNET-101 Introduction to Computers
and Information Technology
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-101
Advisory: Eligible for ENGL-151B and ENGL-163; concurrent
enrollment in CS-101L
Accepted For Credit: CSU & UC
This course is a general introduction to the area of computers
and information technology and is designed for all students.
This survey course will examine a broad overview of topics
including software, hardware, the networking of computer
systems, and information technology. Students will explore the
implications of this technology with regard to today’s
information society. (GC)

CNET-105 PC Hardware and Software
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
This course includes hardware and software topics relevant to
the personal computer and PC troubleshooting. Emphasis is
placed on developing essential troubleshooting and repair skill
and preparation for the A+ certification exam. Repeatable = 3
times (GC)

CNET-114 How Technology Works
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Cross-referenced Course: ENGI-114
Accepted For Credit: CSU
This course is intended for students of all disciplines who are
interested in how everyday things work. It is an introduction to
some of the fundamental science concepts underpinning high
technology, emphasizing everyday devices and practical
experience, for the development of scientific and computer
literacy. Students will experiment with technology to discover
principles of science. Concepts such as force, work, energy,
power, liquids and gasses, heat transfer, electricity, magnetism,
electronics, light, materials science, and time are explored
through experimentation and observation. Students will
experience through class demonstrations and hands-on
laboratories the concepts presented by the instructor.
Phenomena such as how computers convert data, how iPods
transmit sound, how electronic thermometers measure
temperature, how solar heating panels capture heat, and how
GPSs use microwaves will be explored. Field trips to local tech
industry displays are required. (GC)
CNET-135 Introduction to Robotics and Automated Systems
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Cross-referenced Course: ENGI-135
Accepted For Credit: CSU
Students who take this class will understand how scientific innovation can affect their lives either directly or indirectly. The class will teach students the principles of scientific methodology as it is applied to solving problems. The application of this scientific method will be used to navigate an abundance of technical information - to obtain the information, to understand the information, and to determine how to apply it. This course describes the functional hardware and software components of automated systems. The student will experience how scientific principles are applied by building and programming robots. The emphasis is for students to learn science by actually doing science. Repeatable = 3 times (GC)

CNET-135 Database Fundamentals I: Database Architecture and Administration
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: Knowledge of SQL or knowledge of a programming language
Accepted For Credit: CSU
In this course students learn to startup and shutdown a database, create a database, manage file and database storage, and manage users and their privileges. In addition, students learn to organize the database and to move data into and between databases. Hands-on practices help to reinforce key concepts and students have an opportunity to troubleshoot real life issues when they are given examples of typical problems encountered when operating an Oracle database. (GC)

CNET-136 Database Fundamentals II: Database Backup and Recovery
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: CS-138A or CNET-135
Accepted For Credit: CSU
This course addresses backup and recovery techniques and examines various backup, failure, restore, and recovery scenarios for current versions of Oracle databases. Participants utilize multiple strategies and Oracle tools such as Recovery Manager to perform backups and restore and recovery operations. Participants have the opportunity to apply some of the more advanced techniques within a workshop environment. In addition to lecture and hands-on learning, this class addresses answers to frequently asked questions concerning backup and recovery. Repeatable = 2 times (GC)

CNET-137 Introduction to SQL Programming
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-137
Advisory: CS-101L
Accepted For Credit: CSU
This course covers the concepts of relational databases and powerful SQL programming languages. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Demonstrations and hands-on practice reinforce the fundamental concepts. Repeatable = 2 times (GC)

CNET-138 PL/SQL Programming
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: CS-137 or CNET-137
Accepted For Credit: CSU
Students learn to program in PL/SQL and understand the use of this programming language. Students learn to create PL/SQL blocks of application code that can be used by forms and reports. Students learn to create procedures, functions, packages, to manage dependencies, to manipulate large objects, and built-in packages. Repeatable = 2 times (GC)

CNET-139A Database Client and Internet Forms Developer System
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Prerequisite: CS-137B or CNET-138
This course addresses how to develop and deploy Internet and Client applications using Oracle Developer Forms. Working in Oracle Developer Forms, the student learns how to create and customize forms through user input items and how to control data access by creating event-related triggers. The student learns how to test and debug Client and Internet applications using Oracle Developer Forms Builder. Repeatable = 2 times (GC)

CNET-139B Database Reports Internet Developer System
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: CS-137B or CNET-138
In this course, students build reports and run them on the Web. In addition to lecture and hands-on learning, this class addresses answers to frequently asked questions concerning backup and recovery. Repeatable = 2 times (GC)

CNET-140A Linux Installation and Configuration
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Prerequisite: CS-180 or CNET-150; CS-146 or CNET-146
Accepted For Credit: CSU
This course introduces the functions and features of the Linux operating system including the file system, system services, processes, background processing, scheduling, and security. The course supplies students with the information they need to install and configure Linux on a personal computer. Students will get practical experience in installing, administering, and troubleshooting Linux systems. This is the first of four courses and is normally taught over an 8-week period. This course is preparation for Sair Linux and GNU certification. Repeatable = 3 times (GC)

CNET-140B Linux System Administration
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Prerequisite: CS-180 or CNET-150; CS-146 or CNET-146
Advisor: CS-185A or CNET-140A
Accepted For Credit: CSU
This course introduces the fundamental knowledge and skills needed to install, manage, and maintain a Linux computer system. Advanced system management tasks like file system management, patching, rebuilding the kernel, configuring networking interfaces, and system monitoring are performed in the computer lab. Shell programming and the various shells are introduced, and students will learn to write shell script programs to perform various system tasks. This course is preparation for Sair Linux and GNU certification. This is the second of four courses and is normally taught over an 8-week period. Repeatable = 3 times (GC)
CNET-141A  Linux Apache Web Server Administration
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Prerequisites: CNET-140A/B, CNET-150, and CS-146
Accepted For Credit: CSU
This course is designed to give the student a working knowledge of web pages developed with Hypertext Markup Language (HTML), PHP: Hypertext Preprocessor (PHP), and Java Server Page (JSP). Students will install and configure the Apache web server, the MySQL database for simple datastore purposes, and the Tomcat servlet container. Repeatable = 3 times (GC)

CNET-142A  Linux Networking
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Prerequisite: CS-180 or CNET-150; CS-146 or CNET-146
Advisory: CS-185A or CNET-140A; CS-185B or CNET-140B
Accepted For Credit: CSU
This course introduces the functions and features of the Linux operating system in Network. The course describes the major client and server services that are found in most networking computer systems. Students will implement in the computer lab such services as telnet, ftp, nis, nis, web, mail, dns, samba, and dhcp. This course is preparation for Sair Linux and GNU certification. This is the third of four courses and is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-142B  Linux Security
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Prerequisite: CS-180 or CNET-150; CS-146 or CNET-146
Advisory: CS-185A or CNET-140A; CS-185B or CNET-140B
Accepted For Credit: CSU
Students with Linux experience will gain knowledge and skills in implementing Linux security. This course is preparation for Sair Linux and GNU certification. This is the fourth of four courses and is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-144A  Advanced Linux System Administration
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is designed to give the student a working knowledge and skills to perform advance Linux system administration. Students will install and configure system redundancy and fault tolerance through the use of Linux clustering. Advanced techniques in performance and service monitoring will also be introduced. Students will install, configure, and implement the Nagios monitoring system. Repeatable = 3 times (GC)

CNET-146  Introduction to UNIX/Linux
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Cross-referenced Course: CS-146
Advisory: CS-180 or CNET-150
Accepted For Credit: CSU
This lecture-lab course introduces functions of and features of UNIX/Linux operating system, including origin and evolution, hardware and software, graphical user interface, files and file system structure, system services, processes, background processing, scheduling, file security, editors, file sharing, and redirection and piping. Students are introduced to networking and internetworking, electronic mail, internet, shell programming, and a variety of UNIX/Linux tools commonly used for software development in a UNIX/Linux environment. Repeatable = 3 times (GC)

CNET-147  Shell Programming
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-147
Advisory: CS-102
Accepted For Credit: CSU & UC
This hands-on course introduces a variety of tools and concepts used for working with a UNIX-based computer system. The course will present the concept of a shell and describe differences between Bourne, Berkeley C, and Korn shells. Students will be given instruction and assignments in the use of vi, sed, awk, and other tools as time and interest permit. Students will write shell script programs to exercise their understanding of tools and concepts. (GC)

CNET-149  PERL Programming
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-149
Advisory: CS-102, CS-104A, CS-125, CS-146, CNET-146, CS-147, or CNET-147
Accepted For Credit: CSU & UC
This course presents the fundamental knowledge and skills needed to solve problems using PERL or Python languages. These languages are particularly well suited to manipulating textual data and are a favorite among UNIX system administrators for automating common administrative tasks and widespread among web masters for writing CGI applications. (GC)

CNET-150  Network Operating Systems
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: CS-101 or CNET-101
Accepted For Credit: CSU
This course provides an in-depth study of Network Operating Systems. The web-based curriculum, sponsored by Hewlett-Packard Company, is an intensive introduction to multi-tasking network operating systems. Characteristics of the Linux, Windows 2000, NT, and XP network operating systems will be discussed. Students will explore a variety of topics including system services, security issues, back up procedures, and remote access. This course provides the foundation for student preparing to take the CompTIA A+ certification exam. Repeatable = 3 times (GC)

CNET-152  Data Communications
2.00 hrs lecture
Units: 2.00
Cross-referenced Course: CS-152
Advisory: CS-101, CNET-101, or equivalent
Accepted For Credit: CSU
This course is an introduction to data communications. It will include Internet, e-mail, modems, communication protocol, local area networks, wide area networks, network design, and management. (GC)
CNET-155B  Router Configuration and Routing  
(Cisco Certified Networking Academy CCNA 2)  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Advisory: CS-152 or CNET-152; CNET-150  
Accepted For Credit: CSU  
This is the second of four courses designed to introduce students to initial router configuration, Cisco IOS software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Students will develop skills on how to configure a router, managing Cisco IOS software, configuring router protocol on routers, and set the access lists to control routers. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment, and all local, state, and federal safety, building, and environmental codes and regulations. This course is preparation for the Cisco Certified Networking Associates (CCNA) certification. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-156A  Routing and Switching  
(Cisco Certified Networking Academy CCNA 3)  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: CS-186A/B or CNET-155A/B  
Accepted For Credit: CSU  
This is the third of four courses leading to the Cisco Certified Network Associate (CCNA) designation. The course focuses on following: IP addressing techniques of Variable Length Subnet Masking (VLSM); Intermediate routing protocols such as RIP v2, single-area OSPF, and EIGRP; Command-line interface configuration of switches and Ethernet switching; Virtual LANs (VLANs); Spanning Tree Protocol (STP); and VLAN Trunking Protocol (VTP). This course is preparation for the Cisco Certified Network Associate (CCNA) certification. This course is normally taught over an 8-week period. Repeatable = 3 times (GR)

CNET-156B  WAN Design and Support  
(Cisco Certified Networking Academy CCNA 4)  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: CS-186A/B or CNET-155A/B  
Accepted For Credit: CSU  
This is the last of four courses designed to introduce students to current and emerging networking technology. The focus of this course is on Wide Area Network (WAN) technologies. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. This course is normally taught over an 8-week period. Repeatable = 3 times (GR)

CNET-157  TCP/IP and Internetworking  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CS-157  
Prerequisite: CS-152, CNET-152, or equivalent  
Advisory: CS-101, CNET-101, or equivalent  
Accepted For Credit: CSU  
This course provides an introduction and overview of TCP/IP technology. Topics include TCP/IP concepts, protocol architecture, and installation techniques. It prepares the student to pass the certification exam, Internetworking Microsoft TCP/IP, to become an MCP/MCSE. Repeatable = 3 times (GC)

CNET-158  Wireless Networks  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-180 or CNET-150  
Advisory: CS-181 or CNET-105; CS-186A or CNET-155A  
Accepted For Credit: CSU  
This introductory course to wireless communication and LANs focuses on the design, planning, implementation, operation and troubleshooting of Wireless LANs. It covers a comprehensive overview of technologies, security, and design best practices with particular emphasis on hands on skills. Repeatable = 3 times (GC)

CNET-160A  Microsoft Client Operating Systems  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: CS-180 or CNET-150  
Advisory: CS-152 or CNET-152  
Accepted For Credit: CSU  
This course provides students with the knowledge and skills necessary to set up and support the Windows Client Operating System – and prepare for the corresponding Microsoft Certified Professional (MCP) – a core requirement on the new MCSA and MCSE track. Students will get practical experience installing, administering, and troubleshooting this next-generation desktop environment. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-161A  Desktop Support I – Supporting Users  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course is designed to provide individuals who are new to Microsoft Windows XP with the knowledge and skills necessary to troubleshoot the basic problems end users will face while running Microsoft Windows XP Professional in an Active Directory network environment or Windows XP Home edition in a workgroup environment. This is an introductory course designed to provide an overview of operating system concepts and how to troubleshoot Windows XP. Repeatable = 3 times (GC)

CNET-161B  Desktop Support II – Supporting Applications  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Students in this class will learn how to support end users who run Microsoft Windows XP Professional in a corporate environment or Microsoft Windows XP Home edition in a home environment. They gain experience using applications that are included with the operating system, such as Microsoft Internet Explorer and Microsoft Outlook Express, as well as the productivity applications used in a corporate environment, such as Microsoft Office applications. Students will learn how to resolve operating system issues by telephone, connecting to an end user’s system remotely, or by visiting an end user’s desktop. They should have a working knowledge of operating in a workgroup or Active Directory domain environment and how end users are affected by each environment. Repeatable = 3 times (GC)
CNET-164A  Microsoft Server Operating Systems  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: CS-180 or CNET-150  
Advisory: CS-180A or CNET-160A  
Accepted For Credit: CSU  
This course provides students with the knowledge and skills necessary to set up and support the Microsoft Windows Server operating system and prepare for the corresponding Microsoft Certified Professional (MCP), a core requirement on the new MCSE and MCSE track. Students will get practical experience installing, administering, and troubleshooting this powerful enterprise server system. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-162B  Windows Network Infrastructure Administration  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: CS-180 or CNET-150  
Advisory: CS-180A or CNET-160A; CS-180B or CNET-162A; CS-157 or CNET-157; CS-152 or CNET-152  
Accepted For Credit: CSU  
This course prepares students as product support professionals who will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows Server products and prepare for the corresponding Microsoft Certified Professional (MCP) Exam, a core requirement on the MCSE track and elective credit on the MCSA track. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-163  Planning a Microsoft Windows Networks Infrastructure  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: CS-180 or CNET-150  
Advisory: CS-157 or CNET-157; CS-180A or CNET-160A; CS-180B or CNET-162A; CS-182  
Accepted For Credit: CSU  
This course provides students with the information and skills needed to create a networking services infrastructure design that supports the required network applications in a Microsoft Windows network environment. This course prepares students for the corresponding Microsoft Certified Professional (MCP) exam, a core requirement on the MCSE track. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-164B  Designing Microsoft Windows Directory Services Infrastructure  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: CS-180 or CNET-150  
Advisory: CS-157 or CNET-157; CS-180A or CNET-160A; CS-180B or CNET-162A; CS-182B or CNET-164A  
Accepted For Credit: CSU  
This course provides students with the knowledge and skills necessary to design a Microsoft Windows directory services infrastructure in an enterprise network. This course prepares students for the corresponding Microsoft Certified Professional (MCP) Exam, a core requirement on the MCSE track. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-165A  Designing a Secure Microsoft Windows Network  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: CS-180 or CNET-150  
Advisory: CS-157 or CNET-157; CS-180A or CNET-160A; CS-180B or CNET-162A; CS-182A or CNET-162B; CS-182B or CNET-164A  
Accepted For Credit: CSU  
This course provides students with the knowledge and skills necessary to design a security framework for small, medium, and enterprise networks using Microsoft Windows technologies. This course prepares students for the corresponding Microsoft Certified Professional (MCP) Exam 70-298, a core requirement on the MCSE track. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-165B  Microsoft Internet Security and Acceleration Server (ISA)  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Advisory: CS-180A or CNET-160A; CS-180B or CNET-162A; CS-157 or CNET-157  
Accepted For Credit: CSU  
Students will gain the knowledge and skills to deploy and manage Microsoft Internet Security and Acceleration (ISA) Server 2000 in an enterprise environment and experience setting up a Website. This course prepares students for MCP+Internet/ MCSE certifications. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-165C  Administering Security for Windows 2003  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course provides everything students need to build the knowledge and skills necessary to install, configure, administer, and support the security services and tools in the Microsoft Windows Server 2003 operating system. In addition, this course will help students to prepare for the Microsoft Certified Professional examination 70-299: Implementing and Administering Security in a Microsoft Windows Server 2003 Network. This certification exam measures the ability to implement, manage, maintain, and troubleshoot security in a Windows Server 2003 network infrastructure and also plan and configure a Windows Server 2003 PKI. Repeatable = 3 times (GC)
CNET-167A  Network Application Administration I – Email (Exchange 2003)
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Advisory: CS-180A or CNET-160A; CS-180B or CNET-162A
Accepted For Credit: CSU
This course teaches students the knowledge and skills necessary to install, configure, and administer Microsoft Exchange and also allows them to prepare for the corresponding Microsoft Certified Professional (MCP) exam, an elective requirement on the MCSA and MCSE track. This course is usually taught over an 8-week period. Repeatable = 3 times (GC)

CNET-168A  Network Application Administration II – Database (SQL)
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Advisory: CS-180A or CNET-160A; CS-180B or CNET-162A
Accepted For Credit: CSU
This course introduces students to Microsoft SQL Server System Administration and prepares them to install and/or upgrade to SQL Server. The course also allows students to prepare for the corresponding Microsoft Certified Professional (MCP) exam, an elective requirement on the MCSA and MCSE track. This course is usually taught over an 8-week period. Repeatable = 3 times (GC)

CNET-170  Network Security
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: CS-180 or CNET-150
Accepted For Credit: CSU
This course provides an in-depth study of Network Security fundamentals and provides a comprehensive overview of network security. The class is broken down into five sections: General Security Concepts, Communication Security, Infrastructure Security, Cryptography, and Operational/Organizational Security. This course provides the foundation for students preparing to take the CompTIA Security+ certification exam. Repeatable = 3 times (GC)

CNET-171  Information Security
3.00 hrs lecture
Units: 3.00
Prerequisite: CS-180 or CNET-150
Advisory: CS-187A or CNET-170
Accepted For Credit: CSU
This course provides an in-depth study of Information Security fundamentals and provides a comprehensive overview of the field of Information Security. Students will be presented with both the managerial and technical aspects of information security and will cover the knowledge and skills area of the Certified Information Systems Security Professional (CISSP) certification. Repeatability = 3 times (GC)

CNET-172A  Cisco Network Security I (CCSP)
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course focuses on the overall security processes in a network with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; firewall and secure router design, installation, configuration, and maintenance; AAA implementation using routers and firewalls; and securing the network at both layers 2 and 3 of the OSI model. Repeatable = 3 times (GC)

CNET-172B  Cisco Network Security II (CCSP)
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course focuses on the overall security processes in a network with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; firewall and secure router design, installation, configuration, and maintenance; intrusion prevention (IPS) implementation using routers and firewalls; VPN implementation using routers and firewalls. Repeatable = 3 times (GC)

CNET-182  Advanced Routing (Cisco Networking Academy CCNP 1)
1.50 hrs lecture, 4.50 hrs lab
Units: 3.00
Accepted For Credit: CSU
This is the first of four courses leading to the Cisco Certified Network Professional (CCNP) designation. This course introduces students to scaling IP networks. Students learn to use VLSM, private addressing, and NAT optimize IP address utilization. The majority of the course content is related to learning how to implement the RIPv2, EIGRP, OSPF, IS-IS, and BGP routing protocols. In addition, the course details the important techniques used for route filtering and route redistribution. This course will prepare students for the Cisco Certified Networking Professional (CCNP) 642-801 exam. This course is normally taught in an 8-week period. (GC)

CNET-183  Remote Access Networks (Cisco Certified Networking Academy CCNP 2)
1.50 hrs lecture, 4.50 hrs lab
Units: 3.00
Accepted For Credit: CSU
This is the second of four courses of the advanced study of Cisco Networking Academy. Students will gain classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: 642-821 Building Cisco Remote Access Networks (BCRAN). Instruction includes ISDN, DDR, ODR, dialup networking, Frame Relay, AAA, how to build a remote access network to interconnect central sites to branch offices and home office/telecommuters, and to control access to the central site, as well as maximize bandwidth utilization over the remote links. This course is normally taught in an 8-week period. Repeatable = 3 times (GC)

CNET-184  Advanced Switching (Cisco Certified Networking Academy CCNP 3)
1.50 hrs lecture, 4.50 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course enables learners to use appropriate technologies to build scalable multilayer switched networks, to create and deploy a global intranet, and to implement basic troubleshooting techniques in environments that use Cisco multilayer switches for client hosts and services. This course also enables learners to improve traffic flow, reliability, redundancy, and performance for LAN switching that is self-supported or transported via a service provider. This course will prepare students for the Cisco Certified Networking Professional (CCNP) exam: 642-811 (BCMSN) Building Cisco Multilayer Switching Networks. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)
CNET-185 Internetwork Troubleshooting
(Cisco Certified Networking Academy CCNP 4)
1.50 hrs lecture, 4.50 hrs lab
Units: 3.00
Prerequisite: CS-186A-D; or CNET-155A/B and CNET-156A/B;
or CCNA certification
Advisory: CS-157 or CNET-157
Accepted For Credit: CSU
This is the last of four courses of the advanced study of Cisco Networking Academy. This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: 642-831 Cisco Internetwork Troubleshooting (CIT). Instruction includes troubleshooting methodology, network documentation, and debug. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-195A1 Work Experience Education – Vocational
4.20 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CNET-195A2 Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CNET-195A3 Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CNET-195A4 Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CNET-365 Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)

CS-101 Introduction to Computers and Information Technology
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: CNET-101
Advisory: Eligible for ENGL-151B and ENGL-163; concurrent enrollment in CS-101L
Accepted For Credit: CSU & UC
This course is a general introduction to the area of computers and information technology and is designed for all students. This survey course will examine a broad overview of topics including software, hardware, the networking of computer systems, and information technology and surveys of programming languages. The student will explore the implications of this technology with regard to today’s information society. (GC) (CS-101 + CS-101L = CAN CSCI 2)

CS-101L Computer Applications
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Cross-referenced Course: CAOT-101L
Advisory: CS-101, CNET-101, or equivalent
Accepted For Credit: CSU & UC
Topics covered in this course include programs in word processing, spreadsheets, database, presentation graphics, information management, and integration of all the above-mentioned programs. (GC) (CS-101 + CS-101L = CAN CSCI 2)

CS-102 Introduction to Computer Programming Using C++
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: MATH-152, MATH-153, or equivalent
Advisory: CS-101, CNET-101, or equivalent
Accepted For Credit: CSU & UC
This course is an introduction to computer programming. Its primary objective is to teach problem solving using the C++ programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. This course is designed primarily for computer science and related transfer majors. (GC)

CS-104A Visual Basic.NET Programming
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: MATH-152 or MATH-153; CS-101, CNET-101, or equivalent
Accepted For Credit: CSU & UC
This course covers the skills necessary to create structured Windows Applications using Visual Basic.NET for program design and development. Topics covered will include VB.NET language syntax, event-driven programming, structured programming, Visual Basic.NET controls and tools, and user interface strategies. This course is intended for a general audience with no prior programming experience. (GC)

CS-104B Advanced Visual Basic.NET Programming
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: CS-104A or equivalent
Accepted For Credit: CSU & UC
This is an advanced programming course using Visual Basic.NET for the design and development of Windows applications and Web services. Topics covered will include files, databases, SQL, ADO.NET, ASP.NET, Windows and Web forms, Crystal Reports, animation, and multimedia. (GC)
CS-104C  ASP.NET Programming  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Advisory: CS-104A, CS-156, and CS-175  
Accepted For Credit: CSU  
This course is an introduction to ASP.NET programming. The primary objective is to teach students how to develop ASP.NET pages using Windows XP/2000 with MS SQL Server, MS ACCESS, and ADO.NET. Students will design forms, a shopping cart application, automatic email programs, and web automation by using XML, JavaScript, Visual Basic.NET, or C#.NET programming languages. Security and debugging will also be covered in class. (GC)  

CS-104D  Web Services for .NET  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Advisory: CS-104A, CS-104B, and CS-104C  
Accepted For Credit: CSU  
This course is designed to provide students with the knowledge and skills required to develop Extensible Markup Language (XML) Web Services. The course focuses on using Microsoft Visual Studio .NET and Microsoft ASP.NET to enable students to build, deploy, locate, and consume Web services. Repeatable = 2 times (GC)  

CS-113  Discrete Mathematics for Computers  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: MATH-163  
Prerequisite: MATH-188 or equivalent  
Advisory: MATH-101A and MATH-101B  
Accepted For Credit: CSU & UC  
This course is designed for majors in mathematics and computer science. It is the first course for students in discrete mathematics. The main goal of this course is to teach students to think abstractly. This requires that students learn to use logically valid different methods of proof including mathematical induction. Topics include logic, proofs, sets, relations, recurrence relations, graphs, trees, and combinatorics. Applications include Boolean Algebra, logic circuits, O-Notation, and Automata. (GC) (CAN CSCI 26)  

CS-116  C++ Programming: An Object-Oriented Language  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-102 or CS-112 or equivalent  
Accepted For Credit: CSU & UC  
This intermediate-level programming course is intended for those students who already have completed an introductory C or C++ course. It presents a comprehensive study of the C++ programming language and its role in the realm of object-oriented programming. The C++ language extends the C language with its addition of input/output streams, class constructs, inheritance, polymorphism, function and operator overloading, function and class templates, and exception handling. (GC) (CAN CSCI 18)  

CS-117  Introduction to Wireless Programming and Technology  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
This course is an introduction to a variety of wireless programming languages and technologies, including WML, XML, and J2ME. Students will learn wireless programming and the creation of mobile business applications. Repeatable = 2 times (GC)  

CS-118  Introduction to Assembly Language Programming  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-102 or CS-112 or equivalent  
Accepted For Credit: CSU & UC  
This course is an introduction to the Intel 80x86 Assembly language. Topics include numbering systems and IBM-PC architecture, native machine instructions, memory addressing, subroutines, DOS interrupt handling, and file I/O. (GC) (CAN CSCI 10)  

CS-121  Applied Programming in Visual C++  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-116 or equivalent  
Accepted For Credit: CSU  
This course presents a comprehensive introduction to the Visual C++ programming language and its role in the Internet, database, and Windows programming. A variety of OOP topics covered will include building basic Windows applications and advanced Windows applications, such as ODBC, OLE-DB/ADO, DHTML, ActiveX and MFC Wizards. (GC)  

CS-122  C#.NET Programming  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-104A  
Advisory: CS-156  
Accepted For Credit: CSU  
This course is an introduction to C#.NET programming. Data types, methods, classes, control structures, loops, arrays, inheritance, exception handling, database connectivity, GUI controls, and Microsoft.NET architecture will be covered in the class. The primary objective is to teach the student how to develop C#.NET programs using Windows XP/2000 with MS SQL Server, MS ACCESS, and ADO.NET. Students will design forms, a shopping cart application, and Web automation by using HTML, XML, and C#.NET programming languages. Debugging will also be covered in class. (GC)  

CS-124  Advanced Programming with Data Structures  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-116  
Accepted For Credit: CSU & UC  
This course involves the study and implementation of advanced programming techniques. The emphasis is on the data structures of stacks, queues, lists, trees, and graphs; the use of recursion; and the application of these tools primarily to searching and sorting. Students will implement these concepts by writing numerous programs in an object-oriented language such as C++. (GC) (CAN CSCI 14)  

CS-125  Introduction to Programming Using Java  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-152  
Advisory: CS-101, CNET-101, or equivalent  
Accepted For Credit: CSU & UC  
This course is an introduction to computer programming. Its primary objective is to teach the fundamentals of programming using the Java programming language. Emphasis will be placed on basic Java programming concepts and skills. This course is designed primarily for computer science and related transfer majors. Repeatable = 2 times (GC)
CS-135  Database Programming  
3.00 hrs lecture, 1.50 hrs lab  
Units: 3.00  
Prerequisite: CS-101, CNET-101, or equivalent  
Advisory: CS-104A or equivalent  
Accepted For Credit: CSU  
This course will introduce students to the database concepts, command structures, database management, and the skill of database programming. A leading database program such as MS Access, dBase V, FoxPro, or Paradox will be taught. (GC)

CS-136  Advanced Database Programming  
2.50 hrs lecture, 1.50 hrs lab  
Units: 3.00  
Prerequisite: CS-104A or equivalent and CS-135 or equivalent  
Advisory: CS-104B (may be taken concurrently)  
Accepted For Credit: CSU  
This class is designed for the students who wish to develop professional database applications (such as Access) for the business community. Advanced topics such as VBA, DAP, and Active X will be presented. (GC)

CS-139  Data Mining  
3.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This is an introductory course in Data Mining. Data Mining is an information extraction activity whose goal is to discover hidden facts contained in databases. Topics covered include data mining fundamentals, process models, applications, data warehouse, neural networks, and statistical techniques. (GC)

CS-141B  SAS Graphing and ODS  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Cross-referenced Course: BIOT-141B  
Advisory: CS-133 or BIOT-133  
Accepted For Credit: CSU  
This course introduces SAS/GRAPH and ODS. Learn how to design, construct, and display customized graphs quickly and efficiently. Learn how to create a data set from the results of most SAS procedures and build custom reports. Repeatable = 1 time (GC)

CS-143  Advanced SAS Programming  
2.50 hrs lecture, 1.50 hrs lab  
Units: 3.00  
Cross-referenced Course: BIOT-143  
Advisory: BIOT-133/CS-133 or some experience in SAS programming  
Accepted For Credit: CSU  
This course provides students with a basic understanding of macro programming and SQL procedure in SAS software. SQL and macro programming can provide more flexibility and power in data management and data analysis. (GC)
CS-146  Introduction to UNIX/Linux  
2.00 hrs lecture, 3.00 hrs lab  
Units: 3.00  
Cross-referenced Course: CNET-146  
Advisory: CS-180 or CNET-150  
Accepted For Credit: CSU  
This lecture-lab course introduces functions of and features of UNIX/Linux operating system, including origin and evolution, hardware and software, graphical user interface, files and file system structure, system services, processes, background processing, scheduling, file security, editors, file sharing, and redirection and piping. Students are introduced to networking and internetworking, electronic mail, internet, shell programming, and a variety of UNIX/Linux tools commonly used for software development in a UNIX/Linux environment. Repeatable = 3 times (GC)

CS-147  Shell Programming  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-147  
Advisory: CS-102  
Accepted For Credit: CSU & UC  
This hands-on course introduces a variety of tools and concepts used for working with a UNIX-based computer system. The course will present the concept of a shell and describe differences between Bourne, Berkeley C, and Korn shells. Students will be given instruction and assignments in the use of vi, sed, awk, and other tools as time and interest permit. Students will write shell script programs to exercise their understanding of tools and concepts. (GC)

CS-148A  UNIX/Linux System Administration I  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-146 or CNET-146; CS-180 or CNET-150  
Advisory: CS-147 or CNET-147  
Accepted For Credit: CSU  
This lecture-lab course is the first of a two-part training program for potential UNIX/Linux system administrators. Students will gain the fundamental knowledge and skills needed to install, manage, and maintain a UNIX/Linux Operating System. Students will learn to install the operating system, add users, configure devices, install and configure applications, setup printing, and maintain system security. (GC)

CS-148B  System Administration II  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-148A; CS-146 or CNET-146; CS-180 or CNET-150  
Advisory: CS-147 or CNET-147  
Accepted For Credit: CSU  
This hands-on course is mainly for students who have successfully completed UNIX/Linux System Administration I or may have significant experience as a UNIX/Linux system administrator. Lectures and hands-on exercises of advanced UNIX/Linux System Administration concepts provide in-depth information. Topics and exercises include system installation and configuration, file system setup and management, user account management, system network configuration, domain name service management, and “sendmail” configuration. (GC)

CS-149  PERL Programming  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-149  
Advisory: CS-102, CS-104A, CS-125, CS-146, CNET-146, CS-147, or CNET-147  
Accepted For Credit: CSU & UC  
This course presents the fundamental knowledge and skills needed to solve problems using PERL or Python language. These languages are particularly well suited to manipulating textual data and are a favorite among UNIX system administrators for automating common administrative tasks and widespread among web masters for writing CGI applications. (GC)

CS-151  Internet for Research  
0.50 hrs lecture  
Units: 0.50  
Cross-referenced Course: LS-151  
Advisory: CAOT-153 or equivalent  
Accepted For Credit: CSU  
This course presents instruction in the use of the Internet as an alternate to traditional college-level learning resources. It will teach skills and strategies for finding and retrieving information on the Internet. This course is normally offered in a short-term format. (CR)

CS-152  Data Communications  
2.00 hrs lecture  
Units: 2.00  
Cross-referenced Course: CNET-152  
Advisory: CS-101, CNET-101, or equivalent  
Accepted For Credit: CSU  
This course is an introduction to data communications. It will include Internet, e-mail, modems, communication protocol, local area networks, wide area networks, network design, and management. (GC)

CS-157  TCP/IP and Internetworking  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CNET-157  
Prerequisite: CS-152, CNET-152, or equivalent  
Advisory: CS-101, CNET-101, or equivalent  
Accepted For Credit: CSU  
This course provides an introduction and overview of TCP/IP technology. Topics include TCP/IP concepts, protocol architecture, and installation techniques. It prepares the student to pass the certification exam, Internetworking Microsoft TCP/IP, to become an MCP/MCSE. Repeatable = 3 times (GC)

CS-158  Client Server Architecture  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Advisory: CS-135  
Accepted For Credit: CSU  
This course introduces Client/Server Computing where information system programs and data are divided between Client and Server computer. Students will be able to plan and architect distributed computing services that combine networks, databases, user interfaces, application systems, and management services to meet the enterprise needs. Attention will be paid to heterogeneous environments involving different technologies from different suppliers. The course will cover Clients, Servers, Operating Systems, Base Middleware, SQL Servers, Data Warehouse, Client/Server Transaction Processing, Groupware, Distributed Objects, Internet, and Distributed System Management. Upon the successful completion of this course, the student should possess the ability to apply the principles of Client/Server and distributed computing to research, design, and develop solutions for problems in computer and information systems. Repeatable = 3 times (GC)
<table>
<thead>
<tr>
<th><strong>CS-160A</strong> Computer Graphics I</th>
<th><strong>CS-169B</strong> Intermediate Digital Photography</th>
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<tbody>
<tr>
<td>3.00 hrs lecture, 9.00 hrs lab</td>
<td>1.00 hrs lecture, 7.00 hrs lab</td>
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<tr>
<td>Units: 4.00</td>
<td>Units: 2.00</td>
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<tr>
<td>Advisory: ART-104A</td>
<td>Prerequisite: ART-139A/CS/GA-169A or approval by portfolio review</td>
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<td>Accepted For Credit: CSU</td>
<td>Accepted For Credit: CSU</td>
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<td>This course is an introduction to microcomputers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. Repeatable = 3 times (GC)</td>
<td>This is an intermediate course on the Macintosh computer utilizing two software applications, namely Adobe Photoshop and Apple QuickTime VR Authoring Studio. Students will learn to develop QuickTime VR objects, panoramas, and scenes for use with either desktop publishing, print publishing, or Web site development. Students will need a camera for capturing images to be used in projects. Repeatable = 1 time (GR)</td>
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<tr>
<th><strong>CS-160B</strong> Computer Graphics II</th>
<th><strong>Java Programming</strong></th>
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<tbody>
<tr>
<td>3.00 hrs lecture, 9.00 hrs lab</td>
<td>3.00 hrs lecture, 3.00 hrs lab</td>
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<tr>
<td>Units: 4.00</td>
<td>Units: 4.00</td>
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<tr>
<td>Cross-referenced Course: ART-160B, BA-160B, GA-160B</td>
<td>Prerequisite: CS-102</td>
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<tr>
<td>Prerequisite: GA, ART, BA, or CS-160A or equivalent</td>
<td>Advisory: CS-116 or equivalent</td>
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<tr>
<td>Accepted For Credit: CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
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<td>This course is a continuation of 160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. The students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 3 times (GC)</td>
<td>This course is an object-oriented programming language using Java. Students will be able to create applications and applets with APIs that run on different operating systems. Repeatable = 2 times (GC)</td>
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<tr>
<th><strong>CS-162</strong> XHTML</th>
<th><strong>CS-170</strong> Advanced Java Programming</th>
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<tbody>
<tr>
<td>2.00 hrs lecture, 6.00 hrs lab</td>
<td>3.00 hrs lecture, 3.00 hrs lab</td>
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<tr>
<td>Units: 4.00</td>
<td>Units: 4.00</td>
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<tr>
<td>Cross-referenced Course: MM-162</td>
<td>Prerequisite: CS-170</td>
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<tr>
<td>Advisory: CS-101, CNET-101, or CS-101L</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td>Accepted For Credit: CSU</td>
<td>This course is an advanced programming in Java programming in Java language. JDBC servelets, Remote Method Invocation, client/server Networking Programming, Java Beans, and data structures in Java will be introduced. (GC)</td>
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<tr>
<td>Students will use XHTML to create multimedia Web pages using hypertext links, tables, frames, forms, cascading style sheets (CSS), JavaScript, and JavaScript objects and events. Other topics include Dynamic Hypertext Markup Language (DHTML) techniques and working with eXtensible Markup Language (XML) and eXtensible Stylesheet Language (XSL). Repeatable = 1 time (GC)</td>
<td>This course is an introduction to J2EE and EJB (Enterprise Java Beans). Students will be able to create applications and applets with either desktop publishing, print publishing, or Web site development. Repeatable = 1 time (GC)</td>
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<tr>
<th><strong>CS-164</strong> Introduction to FrontPage</th>
<th><strong>CS-171</strong> Servlets and JSP</th>
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<tbody>
<tr>
<td>0.25 hrs lecture, 0.75 hrs lab</td>
<td>3.00 hrs lecture, 3.00 hrs lab</td>
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<tr>
<td>Units: 0.50</td>
<td>Units: 4.00</td>
</tr>
<tr>
<td>Cross-referenced Course: CAOT-164</td>
<td>Prerequisite: CS-170</td>
</tr>
<tr>
<td>Advisory: Eligible for ENGL-151B and ENGL-163; basic proficiency in Microsoft Word</td>
<td>Advisory: CS-110 or equivalent</td>
</tr>
<tr>
<td>This is an introduction to Microsoft FrontPage software. FrontPage is a software application that allows the ability to create, view, and edit Web pages. It can be used to maintain an entire Web site. This course is normally offered in a short-term format. Repeatable = 1 time (GC)</td>
<td>This is an Internet programming and application course using Java technology, including Servlet, JSP, Session tracking, JavaBeans, and JDBC. Repeatable = 2 times (GC)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>CS-169A</strong> Digital Photography</th>
<th><strong>CS-173</strong> J2EE and EJB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00 hrs lecture, 7.00 hrs lab</td>
<td>3.00 hrs lecture, 3.00 hrs lab</td>
</tr>
<tr>
<td>Units: 2.00</td>
<td>Units: 4.00</td>
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<tr>
<td>Cross-referenced Course: ART-139A, GA-169A</td>
<td>Advisory: CS-170 or equivalent</td>
</tr>
<tr>
<td>Advisory: Eligible for ENGL-101A</td>
<td>This course is an introduction to J2EE and EJB (Enterprise Java Beans). Students will be able to write business applications using J2EE and EJB. Repeatable = 2 times (GR)</td>
</tr>
<tr>
<td>Accepted For Credit: CSU</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td>This photography course on the Macintosh computer is a personal training class based on the software application Adobe Photoshop. Students will learn to navigate the application, build files, use several tools for manipulating images, and ultimately gain command of reproducing photographic images using alpha channels, layers, and filters. Repeatable = 1 time (GR)</td>
<td>This course is an introduction to client/server Networking Programming, Java Beans, and data structures in Java programming. (GC)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CS-175</strong> Script Technology for Web Development</th>
<th><strong>CS-176</strong> CGI Programming with PERL for Web Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00 hrs lecture, 3.00 hrs lab</td>
<td>3.00 hrs lecture</td>
</tr>
<tr>
<td>Units: 4.00</td>
<td>Units: 3.00</td>
</tr>
<tr>
<td>Prerequisite: CS-156 or equivalent</td>
<td>Prerequisite: CS-156 or equivalent</td>
</tr>
<tr>
<td>Accepted For Credit: CSU</td>
<td>Accepted For Credit: CSU</td>
</tr>
<tr>
<td>This course is an introduction to CGI (Common Gateway Interface) programming with PERL. The primary objective is to teach how to create interactive Web pages using CGI. Students will learn the fundamental concepts of CGI, the basics of design and integration with HTML, and sufficient PERL to be able to create CGI programs. (GC)</td>
<td>This course is an introduction to CGI (Common Gateway Interface) programming with PERL. The primary objective is to teach how to create interactive Web pages using CGI. Students will learn the fundamental concepts of CGI, the basics of design and integration with HTML, and sufficient PERL to be able to create CGI programs. (GC)</td>
</tr>
</tbody>
</table>
CS-177  E-Commerce  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: CAOT-153  
Advisory: CS-156 and CS-176  
This course is designed to teach students the technologies and models for deploying electronic commerce. Students will learn about the Secure Socket Layer (SSL), Site certificates, verifying authorities, and transaction mechanisms. Students will develop an electronic storefront; build shopping carts, databases, checkout stands; and administer an E-Commerce site. Included is special focus on security and social issues. Repeatable = 1 time (GC)

CS-178  XML  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: CS-156  
Accepted For Credit: CSU  
This course is designed to teach students the technologies of XML (the eXtensible Mark-up Language), XSL (eXtensible Style Language), and DSSSL (Document Style Syntactics and Specification Language). Repeatable = 1 time (GC)

CS-179  Dynamic Web with ColdFusion  
3.00 hrs lecture  
Units: 3.00  
Advisory: CS-156 or CS-162  
Learn to use ColdFusion, one of the most efficient web development applications, to create database driven websites. There is no cost to install ColdFusion Server and other necessary software on a computer. Prior HTML knowledge is helpful as ColdFusion CFML code is imbedded in webpages and forms source code: Use mySQL, Oracle, or other relational databases. (GC)

CS-190  Scientific Research Methodology  
0.50 hrs lecture, 1.50 hrs lab  
Units: 1.00  
Cross-referenced Course: CHEM-190, GEOL-190, BIOL-190, ENGI-190, PHYS-190  
Prerequisite: Consent of instructor  
Advisory: MATH-188; major in science, technology, engineering, or math  
This course introduces students to scientific research methods. It includes hypothesis writing, variable identification, experimental design, literature reviews, data interpretation and analysis, research proposal preparation, and presentation of scientific papers. (GR)

CS-195A1  Work Experience Education – Vocational  
4.20 hrs lab  
Units: 1.00  
Advisory: Refer to Work Experience Education Department Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CS-195A2  Work Experience Education – Vocational  
8.30 hrs lab  
Units: 2.00  
Advisory: Refer to Work Experience Education Department Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CS-195A3  Work Experience Education – Vocational  
12.50 hrs lab  
Units: 3.00  
Advisory: Refer to Work Experience Education Department Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CS-195A4  Work Experience Education – Vocational  
16.70 hrs lab  
Units: 4.00  
Advisory: Refer to Work Experience Education Department Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CS-365  Supervised Tutoring  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)

CONSUMER FAMILY SCIENCES

Division: Health Sciences and Academic Affairs

CFS-100  Introduction to Nutrition  
2.00 hrs lecture  
Units: 2.00  
This course covers the principles of good nutrition and their application to all stages of human development. Focus is on the physiological need for food and the promotion of good eating practices as they relate to optimum body function. The importance of psychological and social aspects of eating at each developmental level are discussed. Nutrition myths and misinformation are explored and evaluated. (GC)

CFS-104A  Current Issues in Child Nutrition  
2.00 hrs lecture  
Units: 2.00  
Advisory: Eligible for ENGL-151B  
The role and requirements of nutrients for children are reviewed. Current issues regarding nutrition and feeding of children are discussed. Legislation regarding feeding of children is updated. It is recommended for school food service, child care, WIC personnel, and parents. (GC)

CFS-108  Nutrition and Fitness  
3.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This course reviews in depth the relationship between the nutrients and muscular performance. Food sources and meal plans for optimum performance, fitness, weight maintenance, weight loss, and weight gain are explored. The need for supplements and popular diets are evaluated. (GC)
CFS-109 Nutrition
3.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course studies the concepts and applications of nutrition in health and disease. Essential nutrients and their functions, food sources, requirements, digestion, absorption, and metabolism are covered. This course is recommended for pre-nursing and other health majors. (GC) (CAN FCS 2)

CFS-112 Nutrition in Health & Disease
3.00 hrs lecture
Units: 3.00
Prerequisite: CFS-109 or equivalent
This course examines in depth the nutritional aspects of health and disease. It covers the principles of a dietary modification necessitated by various diseases, disorders, and special circumstances such as pregnancy, growth, development, diabetes, cancer, and aging. It is recommended for the health professions and the food service industry as well as for general interest. (GC)

CFS-195A1 Work Experience Education – Vocational
4.20 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

CFS-195A2 Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CFS-195A3 Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CFS-195A4 Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

DEAF-110A Introduction to English as a Second Language in American Sign Language
4.00 hrs lecture
Units: 4.00
This course introduces basic English skills, emphasizing reading comprehension, writing, and communication using American Sign Language. The course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-110B Developing English as a Second Language in American Sign Language
4.00 hrs lecture
Units: 4.00
Advisory: DEAF-110A; Fluency in ASL
This course encourages the development of basic English skills emphasizing reading comprehension, writing, and communication using American Sign Language. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-120A Basic Grammar I
3.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This is the first of two courses designed for students who wish to develop their English grammar skills through exposure and practice. Students will have opportunities to learn basic grammar rules through interactive exercises and studying sentence parts and writing sentences. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-120B Basic Grammar II
3.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This is the second of two courses designed for students who wish to develop their English grammar skills through exposure and practice. Students will have opportunities to learn basic grammar rules through interactive exercises and studying sentence parts. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-121A Intermediate Grammar I
3.00 hrs lecture
Units: 3.00
Advisory: DEAF-130A/B; DEAF-131A; DEAF-120A/B
This course is the first of two courses designed for Deaf/HH students who wish to further develop their grammar skills through practice and application. Students will have opportunities to learn grammar rules through interactive exercises, studying sentence parts, and writing sentences. Not applicable to associate degree. Repeatable = 5 times (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hrs</th>
<th>Lab Hrs</th>
<th>Advisory</th>
<th>Notes</th>
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<td>DEAF-130A</td>
<td>Literacy I</td>
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<td>DEAF-130B</td>
<td>Literacy II</td>
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<td>DEAF-131A</td>
<td>Intermediate Literacy I</td>
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<td>DEAF-131B</td>
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<td>DEAF-140A</td>
<td>Lifeskills Mathematics I</td>
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<tr>
<td>DEAF-140B</td>
<td>Lifeskills Mathematics II</td>
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<td>DEAF-141A</td>
<td>Workplace Communication I</td>
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<tr>
<td>DEAF-141B</td>
<td>Workplace Communication II</td>
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<td>DEAF-143</td>
<td>Deaf Vocational Awareness</td>
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<td>DEAF-145A</td>
<td>Def Vocational Planning</td>
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<tr>
<td>DEAF-145B</td>
<td>Job Seeking Strategies for Deaf Students</td>
<td>3.00</td>
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<td>DEAF-146</td>
<td>Work Experience Seminar</td>
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<tr>
<td>DEAF-160A</td>
<td>Personal and Social Awareness I</td>
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<tr>
<td>DEAF-160B</td>
<td>Personal and Social Awareness II</td>
<td>2.00</td>
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</table>
DEAF-161 Introduction to the Deaf Community
3.00 hrs lecture
Units: 3.00
Advisory: ASL Fluency
This is a basic course on the culture of American Deaf people. Cultural norms of Deaf people are examined and current issues within the Deaf community are discussed. Community resources are presented. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-165A Study Techniques: MS Word, Introduction to Windows, and E-mail
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: Fluency in ASL
Introductory use of Microsoft Word, Windows, and e-mail to prepare students for college-level work. It is taught only in ASL. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-165B Study Techniques: MS Excel and Introduction to the Internet and the World Wide Web
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: DEAF-165A; ASL Fluency
Basic course in the use of Microsoft Excel and introduction to Internet and World Wide Web to prepare students for college-level work. The course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-166A Study Techniques: Introduction to Multimedia Photoshop, MS PowerPoint, And Digital Camera
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: Fluency in ASL, DEAF-165A, and DEAF-165B
Introductory course in the use of Photoshop, Microsoft PowerPoint, and the use of a digital camera to prepare students for college-level work. The course is taught only in ASL. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-166B Study Techniques: Introduction to HTML and Web Page Development
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: DEAF-166A; ASL Fluency
Introductory course in the use of Hyper-Text Mark-Up Language and MS FrontPage to prepare students for college-level work. The course is taught only in ASL. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-170A Fundamentals of English Composition
4.00 hrs lecture
Units: 4.00
Corequisite: DEAF-171A
Advisory: DEAF-170A; ASL Fluency
This course focuses on the development of fundamental skills in English grammar and usage as applied through sentence and paragraph development. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-170B Principles of English Composition
4.00 hrs lecture
Units: 4.00
Advisory: DEAF-170A, DEAF-171B; ASL Fluency
This course focuses on the writing process as it is applied in the development of well-organized paragraphs and essays. The course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-171A Fundamentals of Reading
3.00 hrs lecture
Units: 3.00
Corequisite: DEAF-170A
Advisory: DEAF-170A; ASL Fluency
This course focuses on the development of reading skills, especially in the areas of vocabulary expansion, comprehension, and basic critical thinking skills. It is recommended that this course be taken concurrently with DEAF-170A in preparation for academic college-level course work. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-171B Principles of Reading
3.00 hrs lecture
Units: 3.00
Advisory: DEAF-170B, DEAF-171A; ASL Fluency
This course focuses on increasing reading skills developed in DEAF-171A. Emphasis is on identifying main ideas, supporting details, sequence of relationships, inferences, and conclusions. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-172A English Composition Techniques
4.00 hrs lecture
Units: 4.00
Advisory: DEAF-170B, DEAF-173A; ASL Fluency
This course is an intermediate ESL course with strong emphasis on refinement of English composition skills as applied through paragraph and essay development. Students are exposed to a variety of well-written essays and guided through an analysis of structure, content, and style. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-172B Strategies for Successful Writing
4.00 hrs lecture
Units: 4.00
Advisory: DEAF-172A, DEAF-173B; ASL Fluency
This course is a high-intermediate ESL course with strong emphasis on refinement of English composition skills as applied through paragraph and essay development. Students are exposed to a variety of well-written essays and guided through an analysis of structure, content, and style. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-173A Reading Techniques
3.00 hrs lecture
Units: 3.00
Advisory: DEAF-171B, DEAF-172A; ASL Fluency
This course is an intermediate course with emphasis on literary study and basic research skills. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-173B Strategies for Successful Reading
3.00 hrs lecture
Units: 3.00
Advisory: DEAF-172B, DEAF-173A; ASL Fluency
This course is a high intermediate reading course with emphasis on the further development of literary study and research skills. This course is taught in American Sign Language only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-175 Advanced English Grammar for Mainstreamed Students
3.00 hrs lecture
Units: 3.00
Advisory: ASL fluency; ENGL-151A or higher
This course is designed for students who already have an intermediate to advanced knowledge of English sentence structure but who need further refinement of grammar and other language skills. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)
ANNOUNCEMENT OF COURSES

DEAF-176A  Academic Vocabulary I
2.00 hrs lecture
Units: 2.00
Advisory: Eligible for DEAF-172A; ASL fluency
This course is the first of two courses designed for students who wish to improve their vocabulary through exposure to words found in academic coursework. Students will strengthen their understanding of words through thematic reading and interactive exercises, by studying word parts, synonyms, and analogies, and by analyzing their meanings in various written contexts. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-176B  Academic Vocabulary II
2.00 hrs lecture
Units: 2.00
Advisory: Eligible for DEAF-172A; ASL fluency
This course is the second of two courses designed for students who wish to improve their vocabulary through exposure to words found in academic coursework. Students will strengthen their understanding of words through thematic reading and interactive exercises, by studying word parts, synonyms and antonyms, and analogies, and by analyzing their meanings in various written contexts. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-189A  Intensive University Preparation – Reading I
4.00 hrs lecture
Units: 4.00
Advisory: ASL fluency; eligible for ENGL-151A, ENGL-162
This course is the first reading course in an intensive two-semester reading program with emphasis on critical reading and independent research skills. The course is designed to prepare students for college/university-level English literary course work. The course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-189B  Intensive University Preparation – Reading II
4.00 hrs lecture
Units: 4.00
Advisory: DEAF-189A; ASL Fluency
This course is the second reading course in an intensive two-semester reading program with emphasis on critical reading and independent research skills. The course is designed to prepare students for college/university-level English literary course work. The course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-191  Human Potential Seminar
2.00 hrs lecture
Units: 2.00
A practical course specifically designed to meet the personal growth needs of Deaf students finding their place as Deaf adults in a hearing society. Emphasis will be on issues encountered in everyday life. Group and individual activities will encourage self-exploration and awareness, values clarification, conscious choice, decision making, and interpersonal communication. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-195A2  Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Cooperative Education Department Notes
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) Repeatable = 5 times (GC)

DEAF-195A3  Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Cooperative Education Department Notes
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) Repeatable = 5 times (GC)

DEAF-195A4  Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Cooperative Education Department Notes
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) Repeatable = 5 times (GC)

DEAF-311  Introduction to American Deaf Culture
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, 163; fluency in ASL
Accepted For Credit: CSU
Introduction to the social, cultural, and sociolinguistic characteristics of Deaf people. Taught in ASL only. Repeatable = 5 times (GC)

DEAF-312  Linguistics of ASL
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151A, ENGL-163; ASL fluency
Accepted For Credit: CSU
This is an introduction to the language of American Deaf people. Grammar, morphology, phonology, and semantics of American Sign Language are covered. The course is taught in ASL only. Repeatable = 5 times (GR)

DEAF-330  Educating the Deaf
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This course is designed to provide students with skills that are needed to work with deaf students in a residential setting. The course is taught in ASL only. Repeatable = 5 times (GR)

DEAF-331  Counseling the Deaf
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This course provides students with an overview of child development theories as they relate to the Deaf experience. The course is taught in ASL only. Repeatable = 5 times (GR)

DEAF-332  Development of the Deaf Child
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This course provides students with an overview of child development theories as they relate to the Deaf experience. The course is taught in ASL only. Repeatable = 5 times (GR)

DEAF-343  Field Work in Deaf Education
9.00 hrs lab
Units: 3.00
Prerequisite: Certificate of Completion in Deaf Education
Accepted For Credit: CSU
This course is designed to provide Deaf Education students with hands-on experience in a residential school setting. A weekly seminar is included for group discussion on practicum experience. The course is taught in ASL only. Repeatable = 5 times (GR)

DEAF-365  Supervised Tutoring
10.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 5 times (NG)
EARLY CHILDHOOD STUDIES
Division: Humanities, Social Sciences, and Mathematics

ECS-195A1 Work Experience Education – Vocational
4.20 hrs lecture
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU

Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

ECS-195A2 Work Experience Education – Vocational
8.30 hrs lecture
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU

Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

ECS-195A3 Work Experience Education – Vocational
12.50 hrs lecture
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU

Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

ECS-195A4 Work Experience Education – Vocational
16.70 hrs lecture
Units: 4.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU

Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

ECS-300 Introduction to Early Childhood Studies
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU

This is the introductory course in the field of Early Childhood Studies. This course covers the history and development of educational programs for young children. The role of adults, developmental theory and domains, play and the development of relationships between adult and child, and child and child, are included, as are the various early childhood curriculums. (GC)

ECS-301 Early Childhood Growth and Development
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A; ECS-300 and ECS-304
Accepted For Credit: CSU & UC

This course is the study of the developing human being from conception through school age. It clearly focuses on developmental characteristics, influences on development, individual differences, physical, social, emotional, and cognitive development, and application in the field of early childhood education. Research methods and observation and assessment are covered. (GR)

ECS-302 Introduction to Early Childhood Curriculum
4.00 hrs lecture
Units: 4.00
Advisory: Eligible for ENGL-101A; ECS-300, ECS-301, and ECS-304
Accepted For Credit: CSU

This course is an overview of the application of principles of human growth and development to individual issues in early childhood educational programs including appropriate play, aesthetic and learning experiences including program content, use of materials and equipment, planning and guidance of assessment and documentation. (GC)

ECS-303 Child, Family, and Community
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A; ECS-300 or ECS-301
Accepted For Credit: CSU

This course examines family living patterns and lifestyles in today's society. The diversity of family composition and interactions of family members and the factors affecting family life, child-rearing practices, family-school-community relationships and partnerships. Resources available within the school and community, as well as social services, health service, and recreational facilities within the community are explored. (GR)

ECS-304 Observation and Assessment of Young Children
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-101A; ECS-300, ECS-301
Accepted For Credit: CSU

This course deals with observation methods focusing on major areas of child development such as emotional, social, physical, and cognitive. Extensive observation in this course aids students in the ability to learn and utilize assessment strategies and develop curricula to support children's growth. (GR)

ECS-305 Health and Safety Practices in Programs For Young Children
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A; ECS-300
Accepted For Credit: CSU

This course familiarizes and focuses students on universal health precautions and health and safety practices for the early childhood classroom, nutrition, disease and injury prevention, care of sick children, and the recognition of child abuse. Topics and skills include infant and child CPR and first aid techniques. (GC)

ECS-306 Guidance and Discipline of Young Children
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU

The principles of positive guidance and discipline based on contemporary research and child development will be discussed in this course. Application of the principles of effective communication, understanding child development and behavior, appropriate limits and rules, structuring problem solving, and consequences will be discussed. This course is appropriate for teachers and parents. (GC)
ECS-307A3  **Beginning Practicum**
*Working With Young Children in the Child Lab*
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-101A; completion of, or concurrent enrollment in, ECS-300
This lab offers direct experience working with and observing young children. Students will be trained in the planning, implementing, and evaluating program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of an assistant teacher. (GR)

ECS-307A4  **Beginning Practicum**
*Working With Young Children in the Child Lab*
2.00 hrs lecture, 6.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-101A; completion of, or concurrent enrollment in, ECS-300
This lab offers direct experience working with and observing young children. Students will be trained in the planning, implementing, and evaluating program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of an assistant teacher. (GR)

ECS-307A5  **Beginning Practicum**
*Working With Young Children in the Child Lab*
2.00 hrs lecture, 9.00 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A; completion of, or concurrent enrollment in, ECS-300
This lab offers direct experience working with and observing young children. Students will be trained in the planning, implementing, and evaluating program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of an assistant teacher. (GR)

ECS-307B3  **Intermediate Practicum**
*Working With Young Children in the Child Lab*
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: ECS-307A3, ECS-307A4, or ECS-307A5
Advisory: Eligible for ENGL-101A; ECS-300
This course continues direct experience working with and observing young children. Students will plan, implement, and evaluate program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of a teacher. (GR)

ECS-307B4  **Intermediate Practicum**
*Working With Young Children in the Child Lab*
2.00 hrs lecture, 6.00 hrs lab
Units: 4.00
Prerequisite: ECS-307A3, ECS-307A4, or ECS-307A5
Advisory: Eligible for ENGL-101A; ECS-300
This course continues direct experience working with and observing young children. Students will plan, implement, and evaluate program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of a teacher. (Formerly ECS-307B) (GR)

ECS-307B5  **Intermediate Practicum**
*Working With Young Child in the Child Lab*
2.00 hrs lecture, 9.00 hrs lab
Units: 5.00
Prerequisite: ECS-307A3, ECS-307A4, or ECS-307A5
Advisory: Eligible for ENGL-101A; ECS-300
This course continues direct experience working with and observing young children. Students will plan, implement, and evaluate program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of a teacher. (GR)

ECS-307C3  **Advanced Practicum**
*Working With Young Children in the Child Lab*
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: ECS-307B3, ECS-307B4, or ECS-307B5
Advisory: ENGL-101A; ECS-300
This course continues direct experience with increased responsibility working with and observing young children. Students will be trained in the planning, implementing, and evaluating program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of a lead teacher. (GR)

ECS-307C4  **Advanced Practicum**
*Working With Young Children in the Child Lab*
2.00 hrs lecture, 6.00 hrs lab
Units: 4.00
Prerequisite: ECS-307B3, ECS-307B4, or ECS-307B5
Advisory: ENGL-101A; ECS-300
This course continues direct experience with increased responsibility working with and observing young children. Students will be trained in the planning, implementing, and evaluating program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of a lead teacher. (GR)

ECS-307C5  **Advanced Practicum**
*Working With Young Children in the Child Lab*
2.00 hrs lecture, 9.00 hrs lab
Units: 5.00
Prerequisite: ECS-307B3, ECS-307B4, or ECS-307B5
Advisory: ENGL-101A; ECS-300
This course continues direct experience with increased responsibility working with and observing young children. Students will be trained in the planning, implementing, and evaluating program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Students will perform the competencies of a lead teacher. (GR)

ECS-308  **Administration of Programs for Young Children**
3.00 hrs lecture
Units: 3.00
Prerequisite: ECS-300, ECS-301, and ECS-303
Advisory: Eligible for ENGL-151B and ENGL-163; MATH-190 or equivalent
Accepted For Credit: CSU
This course covers principles in organization and management of preschools and childcare centers. Subject matter includes program planning, organization, budgeting, personnel, records, relationships with community resources, regulatory agencies, and working with parents. The legal requirements for operating programs for young children in California provide a framework for course work. Repeatable = 1 time (GR)
ECS-309  Cultural Diversity in Programs for Young Children  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
Students will study the diversity and development of ethnic, linguistic, cultural, and religious backgrounds of families in relationship to the education of young children. Students will examine and plan curriculum to reflect the diversity of racial, cultural, and linguistic influences children and families bring to school settings. Repeatable = 1 time (GR)

ECS-310  Music and Movement Curriculum for Young Children  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300 or ECS-301; ECS-302  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course provides a survey of music, materials, and movement activities for young children (2-10 years). Students learn effective techniques for using songs, rhythm, instruments, creative dance, and games. The use of a variety of musical media and props will be demonstrated. Repeatable = 1 time (GR)

ECS-311  Art for the Young Child  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300 or ECS-301; ECS-302  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course includes practice in using age-appropriate methods with commonly available creative art media for children of various developmental stages, infancy through eight years old. Students learn to make, collect, and use various materials to develop an understanding of how art expression and skills change as children mature. Evaluation and appreciation of art activities as opportunities for self-expression and sensory stimulation will be explored. Repeatable = 1 time (GR)

ECS-312  The Development of Literacy in Early Childhood Education  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300, ECS-301, ECS-302  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course examines how children gain oral language and listening skills leading to the development of writing and reading. It will include curriculum development for an emergent literacy environment. (GR)

ECS-313  Science and Math Curriculum for Young Children  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300 or ECS-301; ECS-302  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course provides guidelines for preparing curriculum centering on science and environmental studies. Math and science interrelationships will be explored as well as gender differences, current research, and the use of hands-on approach. Repeatable = 1 time (GR)

ECS-314  Literature for the Young Child  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course provides an in-depth experience with literature for ages 0-8. The course introduces students to the development of reading in young children, their interests, diversity, and reading skill levels. Content to be covered includes the historical development of children's literature, effective techniques used to introduce literature, books, poetry, other reading media, and storytelling and reading to children. Students will learn how to extend literature into other curriculum areas. (GR)

ECS-316  Children with Special Needs in Programs for Young Children  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300, ECS-301, and ECS-304  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
The course focuses on recognizing and distinguishing the variety of special needs exhibited by children 0 through 10 years. Factors affecting and contributing to the causes and needs of these children will be explored, including genetic, environmental, physical, cognitive, and social. (GR)

ECS-317  Infant and Toddler Development and Care  
2.00 hrs lecture, 3.00 hrs lab  
Units: 3.00  
Prerequisite: ECS-301  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
Students will study infant and toddlers' physical growth, social adjustment, and the psychological and social roots from which children develop. Students practice planning environments and equipment selection, health, safety, caregiving routines, and communication skills in group settings, working with infants and toddlers. (GR)

ECS-319  Work Experience Seminar  
2.00 hrs lecture  
Units: 2.00  
Prerequisite: ECS-300 and ECS-301  
This course will be a discussion and analysis of problems encountered on the job. Legal issues, case studies, and principles of participation in on-the-job training in early childhood programs will be discussed. Repeatable = 3 times (GC)

ECS-320  Introduction to Family Child Care Homes  
1.00 hrs lecture  
Units: 1.00  
This course will cover the operation of child care in a home setting. Topics will include home setup, business practices and policies, program planning, parent relations, and communications. California licensing regulations will be covered. Not applicable to associate degree. (CR)

ECS-321  Supervision in Early Childhood Programs  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300, ECS-301, and ECS-303  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course covers group dynamics, supervision of staff and parents, development of motivation and morale, leadership skills, and functions of personnel. It includes interviews, interpersonal and group conflict resolution, staff evaluations, and working with parents and boards. It is designed to provide knowledge and methods for those working in supervisory capacities in early childhood programs. (GR)
ECS-322 Mentoring and Supervision in Early Childhood Programs
2.00 hrs lecture
Units: 2.00
Prerequisite: ECS-300, ECS-301, ECS-308
Accepted For Credit: CSU
This course is a study of the methods and principles of supervising student teachers, assistant teachers, parents, and volunteers in early childhood education programs. Emphasis is on the role of master teachers who function as both supervisors and mentors while addressing the needs of children, parents, and other staff. Repeatable = 1 time (GR)

ECS-323 Advanced Training in Infant-Toddler Care
3.00 hrs lecture
Units: 3.00
Prerequisite: ECS-300, ECS-301, ECS-317
Accepted For Credit: CSU
Advanced ECS students will study infant/toddler growth and development in all domains. Specific consideration will be given to planning environments, recognizing and diagnosing delays, relationships with parents, effect of nurturing, and the group setting on very young children. Repeatable = 1 time (GR)

ECS-324 Parenting
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This introductory course is an exploration of the role and relationships involved in parenting. It explores the historical context and changes in perceptions and responsibilities assigned to parents in American society. Topics include history of parenting, parenting styles, beliefs and values, skills and methods, relationships, and basic child development. Repeatable = 1 time (GR)

ECS-325A Workshop Series for Parents and Teachers
0.50 hrs lecture
Units: 0.50
This course is a workshop for parents and teachers covering specific topics in the field of Early Childhood Studies. The theme and content varies and is determined by the Early Childhood Studies instructors. Not applicable to associate degree. Repeatable = 3 times or 4 units (CR)

ECS-325A1 Workshop Series for Parents and Teachers
1.00 hrs lecture
Units: 1.00
This course is a workshop for parents and teachers covering specific topics in the field of Early Childhood Studies. The theme and content varies and is determined by the Early Childhood Studies instructors. Not applicable to associate degree. Repeatable = 3 times or 4 units (CR)

ECS-326A Parent Participation
0.50 hrs lecture, 1.50 hrs lab
Units: 1.00
Corequisite: Enrollment of child in Ohlone College Children’s Programs
Presented in this course are a variety of topics which deal with the physical, emotional, social, and intellectual development of the young child and ways in which parents can be involved in the learning process. Participation in the Child Development programs is required. This course is required of parents of children in the Ohlone Child Development Programs. Repeatable = 3 times (CR)

ECS-326B Parent Participation
0.50 hrs lecture, 1.50 hrs lab
Units: 1.00
Prerequisite: Completion of 4 units of ECS-326A
Corequisite: Enrollment of child in Ohlone College Children’s Programs
In this course parents will continue their participation in the children’s programs. Exploration and enhancement or specific parenting skills will be facilitated. Participation in the Ohlone Child Development Programs is required. This course is for returning parents of children who have been enrolled in ECS-326A for at least four previous semesters. Repeatable = 3 times (CR)

ECS-326C Advanced Parent Participation
0.50 hrs lecture, 1.50 hrs lab
Units: 1.00
Prerequisite: Completion of 4 units of ECS-326B
Corequisite: Enrollment of child in Ohlone College Children’s Programs
In this course parents play a greater role in the planning and implementation of their children’s preschool experience. Under the direction of the instructor and children’s teachers, parents share skills and information with ECS-326A and ECS-326B students. Participation in the Ohlone College Child Development Programs is required. This course is for returning parents of children who have been enrolled in ECS-326B for at least four previous semesters. Repeatable = 3 times (CR)

ECS-327 School Age Child Development
3.00 hrs lecture
Units: 3.00
Prerequisite: ECS-300, ECS-301
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course is the study of the developing child during the school-age years. It focuses on the developmental characteristics; influences on development; individual differences; physical, social-emotional, cognitive, and creative development. It examines the role of the teacher in programs designed for the school-age child. Repeatable = 1 time (GC)

ECS-328 Curriculum for the School Age Child
3.00 hrs lecture
Units: 3.00
Prerequisite: ECS-300, 301
Advisory: Eligibility for ENGL-151B
Accepted For Credit: CSU
This course studies the fundamentals of planning, implementing, and evaluating curriculum for programs serving school-age children and their families. The emphasis is on developing and providing age appropriate activities, environment, and relationships in the context of an integrated and active curriculum. Repeatable = 1 time (GC)

ECS-329 Early Childhood Director’s Seminar
2.00 hrs lecture
Units: 2.00
Prerequisite: ECS Certificate of Achievement
Advisory: Current employment as Director/Administrator
Accepted For Credit: CSU
This course provides on-going professional support, information, and resources for students who are currently administering Early Childhood Programs. A combination of dialogue, professional guest speakers, exposure to community resources, network building activities, current information on research, trends, and issues of the field will contribute to the student’s competence, performance, and effectiveness in his/her supervisor role. Repeatable = 3 times (GC)
ECS-330  Second Helping for Family Childcare Providers
2.00 hrs lecture
Units: 2.00
Prerequisite: ECS-320, 18 months experience in a licensed program
This is the second course for Family Child Care Providers. It covers the role of the provider, the task of managing, relationships between caregivers and parents, and providing environments for children. Repeatable = 1 time (GC)

EDUCATION
Division: Humanities, Social Sciences, and Mathematics

EDUC-101  Exploring Education
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU & UC
This course will introduce students to the field of teaching. The class will include reports and discussions related to direct observations of pre-school, elementary, secondary, higher education, and non-school educational settings. Changing issues in education and their implications for future teaching practices and theories will be examined. (GR)

EDUC-191A  Tutor Training Part I
0.50 hrs lecture
Units: 0.50
Corequisite: Employment as a tutor at Ohlone College for at least 25 hours
This course covers effective methods for tutoring. The do's and don'ts of tutoring, study skills, and questioning techniques are a few of the topics covered. Students enrolling in this course must be concurrently employed as a tutor at Ohlone College. CRLA has approved this course for certification, and students who receive CRLA certification are qualified to tutor at any of the over 500 colleges in the U.S. and Canada that have CRLA programs. Repeatable = 1 time (CR)

EDUC-191B  Tutor Training Part II
0.50 hrs lecture
Units: 0.50
Corequisite: Employment as a tutor at Ohlone College for at least 25 hours
This course continues on from Part I with additional effective methods of tutoring. Learning styles, structuring the learning experience, handling challenging situations, and being inventive are among the topics covered. Students enrolling in this course must be concurrently employed as a tutor at Ohlone College. Leads to CRLA certification. Repeatable = 1 time (CR)

ENGI-101  Introduction to Engineering
3.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course examines the engineering career: requirements, ethics, salaries, organization, management, registration, and degree planning. (GC)

ENGI-114  How Technology Works
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Cross-referenced Course: CNET-114
Accepted For Credit: CSU
This course is intended for students of all disciplines who are interested in how everyday things work. It is an introduction to some of the fundamental science concepts underpinning high technology, emphasizing everyday devices and practical experience, for the development of scientific and computer literacy. Students will experiment with technology to discover principles of science. Concepts such as force, work, energy, power, liquids and gasses, heat transfer, electricity, magnetism, electronics, light, materials science, and time are explored through experimentation and observation. Students will experience through class demonstrations and hands-on laboratories the concepts presented by the instructor. Phenomena such as how computers convert data, how iPods transmit sound, how electronic thermometers measure temperature, how solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)

ENGI-115  Engineering Communication
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course covers the principles of graphic expression by means of technical sketching, instrument drawing, and computer aided drafting. (GR)

ENGI-120  Engineering Mechanics – Statics
3.00 hrs lecture
Units: 3.00
Prerequisite: PHYS-140 and MATH-101B
Accepted For Credit: CSU & UC
This course is a study of force systems and equilibrium in two and three dimensional structures, distributed forces, friction, and virtual work. (GR) (CAN ENGR 8)

ENGI-130  Electric Circuit Analysis
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: MATH-101B, PHYS-141
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is a study of DC and AC linear circuits and transient and steady state analysis. Experimental techniques, instrumentation, and circuit simulation will be covered in the lab. (GR) (CAN ENGR 6)
ENGI-131D  Review of Engineering Concepts  
1.00 hrs lecture  
Units: 1.00  
This course is designed to review course content in selected engineering course(s). This course introduces study techniques, problem solving techniques, and more in-depth discussions of engineering principles and applications in selected courses. Repeatable = 3 times (CR)  

ENGI-135  Introduction to Robotics and Automated Systems  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-115  
Accepted For Credit: CSU  
Students who take this class will understand how scientific innovation can affect their lives either directly or indirectly. The class will teach students the principles of scientific methodology as it is applied to solving problems. The application of this scientific method will be used to navigate an abundance of technical information – to obtain the information, to understand the information, and to determine how to apply it. This course describes the functional hardware and software components of Automated Systems. The student will experience how scientific principles are applied by building and programming robots. The emphasis is for students to learn science by actually doing science. Repeatable = 3 times (GC)  

ENGI-140  Materials Engineering  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CHEM-101A, PHYS-140 with grade of C or better  
Accepted For Credit: CSU & UC  
This course covers atomic and crystal structures; imperfections; diffusion and relation between microstructure and the properties of engineering materials such as metals, polymers, ceramics and composites; phase equilibrium and transformations; mechanical, electrical, thermal, magnetic and optical properties; corrosion and material degradation. (GC) (CAN ENGR 4)  

ENGI-190  Scientific Research Methodology  
0.50 hrs lecture, 1.50 hrs lab  
Units: 1.00  
Cross-referenced Course: CHEM-190, GEOL-190, BIOL-190, PHYS-190, CS-190  
Prerequisite: Consent of instructor  
Advisory: MATH-188; major in science, technology, engineering, or math  
This course introduces students to scientific research methods. It includes hypothesis writing, variable identification, experimental design, literature reviews, data interpretation and analysis, research proposal preparation, and presentation of scientific papers. (GR)  

ENGI-195A1  Work Experience Education – Vocational  
4.20 hrs lab  
Units: 1.00  
Advisory: Refer to Work Experience Education Department  
Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)  

ENGI-195A2  Work Experience Education – Vocational  
8.30 hrs lecture  
Units: 2.00  
Advisory: Refer to Work Experience Education Department  
Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)  

ENGI-195A3  Work Experience Education – Vocational  
12.50 hrs lecture  
Units: 3.00  
Advisory: Refer to Work Experience Education Department  
Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)  

ENGI-195A4  Work Experience Education – Vocational  
16.70 hrs lecture  
Units: 4.00  
Advisory: Refer to Work Experience Education Department  
Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)  

ENGI-365  Supervised Tutoring  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)  

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ENGLISH  
Division: Humanities, Social Sciences, and Mathematics  

ENGL-101A  Reading and Written Composition  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: ENGL-151B and ENGL-163 with a grade of C or better  
Accepted For Credit: CSU & UC  
This course focuses on reading and writing of expository and argumentative works and introduction to research skills and documentation to develop students’ ability to think critically and advocate ideas forcefully and accurately. Students will increase practical fluency by developing sentence, paragraph, thesis, and essay writing skills. (GR) (CAN ENGL 2 or ENGL-101A + ENGL-101B = CAN ENGL SEQ A)  

ENGL-101B  Reading and Composition  
(Introduction to Literature)  
4.00 hrs lecture  
Units: 4.00  
Prerequisite: Completion of ENGL-101A with a grade of C or better  
Accepted For Credit: CSU & UC  
Students will read and evaluate literature in a critical, logical way. The emphasis will be upon critical analysis of literary works (novels, short story, poetry, and drama) and upon the students' development of an appreciation of literature. (GR) (CAN ENGL 4 or ENGL-101A + ENGL-101B = CAN ENGL SEQ A)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Hours</th>
<th>Prerequisites</th>
<th>Accepted For Credit:</th>
<th>Advisory:</th>
<th>Cross-referenced Course:</th>
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<td>ENGL-101C</td>
<td>Critical Thinking and Composition</td>
<td>3.00</td>
<td>3.00</td>
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<td>CSU &amp; UC</td>
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<td>ENGL-104</td>
<td>The Short Story</td>
<td>3.00</td>
<td>3.00</td>
<td>Advisory: Eligible for ENGL-101A</td>
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<td>English Literature: From Romanticism to Modernism</td>
<td>3.00</td>
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<td>Censorship and Literature</td>
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<td>Literature and Film</td>
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<td>Advisory: ENGL-101A</td>
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<td>ENGL-108</td>
<td>Writing Short Fiction</td>
<td>3.00</td>
<td>3.00</td>
<td>Prerequisite: ENGL-111A</td>
<td>CSU &amp; UC</td>
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<tr>
<td>ENGL-111A</td>
<td>Beginning Creative Writing</td>
<td>3.00</td>
<td>3.00</td>
<td>Prerequisite: ENGL-101A</td>
<td>CSU &amp; UC</td>
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<tr>
<td>ENGL-111B</td>
<td>Intermediate Creative Writing</td>
<td>3.00</td>
<td>3.00</td>
<td>Prerequisite: ENGL-111A or equivalent or a beginning writing course from another college</td>
<td>CSU &amp; UC</td>
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<tr>
<td>ENGL-112</td>
<td>Modern Fiction</td>
<td>3.00</td>
<td>3.00</td>
<td>Advisory: Eligible for ENGL-151B</td>
<td>CSU &amp; UC</td>
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<td>ENGL-113</td>
<td>Poetry</td>
<td>3.00</td>
<td>3.00</td>
<td>Advisory: Completion of ENGL-151B</td>
<td>CSU &amp; UC</td>
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<tr>
<td>ENGL-114</td>
<td>World Mythology</td>
<td>3.00</td>
<td>3.00</td>
<td>Cross-referenced Course: WS-115</td>
<td>CSU &amp; UC</td>
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<tr>
<td>ENGL-115</td>
<td>Women in Literature</td>
<td>3.00</td>
<td>3.00</td>
<td>Cross-referenced Course: WS-115</td>
<td>CSU &amp; UC</td>
<td></td>
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<tr>
<td>ENGL-117</td>
<td>Science Fiction and Fantasy</td>
<td>3.00</td>
<td>3.00</td>
<td>Cross-referenced Course: WS-115</td>
<td>CSU &amp; UC</td>
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<tr>
<td>ENGL-118</td>
<td>Introduction to Shakespeare</td>
<td>3.00</td>
<td>3.00</td>
<td>Cross-referenced Course: WS-115</td>
<td>CSU &amp; UC</td>
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</table>
ENGL-119  The Gothic Novel  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines selected gothic novels in English and American Literature in order to analyze and discuss their importance in the development of fiction. Course focus is on the gothic impulse in nineteenth century literature. Classics like Frankenstein, Dracula, Jane Eyre, and Dr. Jekyll and Mr. Hyde will be studied in connection with the preoccupations of the Romantic and Victorian eras. Vintage films will be shown. (GC)

ENGL-120A  Survey of American Literature: Beginning To 1865  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A  
Accepted For Credit: CSU  
This course focuses on the literary productions of America from its beginning to 1865. Students will read and discuss American oral traditions, short stories, poetry, drama, and novels and will become familiar with great American writers. (GC)

ENGL-120B  Survey of American Literature: 1865 to Present  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A  
Accepted For Credit: CSU  
This course focuses on the literary productions of the United States from 1865 to the present. Students will read and discuss classic American short stories, poetry, drama, and novels and will become familiar with great American writers. (GC)

ENGL-127  Autobiography: Writing Journals and Memoirs  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This is an autobiography course for those who wish to write about their personal and family experiences in journals and memoirs. The course encourages students to remember, consider, and write about their own and their family's past and present, to learn basic research techniques, to organize their material, and to write effectively. Students will also discuss extracts from published autobiographical works. (GC)

ENGL-129  Psychology and Literature  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This literature course focuses on character motivation, the variety of human behavior, and the encouragement of reading as a way of understanding life. Course content will be at least partly dictated by students' interests. Repeatable = 1 time (GC)

ENGL-130  American Stories: Multicultural Autobiography and Memoir  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course explores the lives of multicultural Americans, such as Native Americans, African Americans, Asian Americans, and Latinos, as told through autobiography or memoir. (GC)

ENGL-135  Emerging Voices: Literature Reflecting The Diversity of the U.S.  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course explores how four historically underrepresented groups (African-American, Asian-American, Chicano/Latino, and Native-American) have chronicled and celebrated their cultures in poetry, drama, and fiction. (GC)

ENGL-151A  Fundamentals of Composition  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: ESL-184RW with a grade of C or better, equivalent course, or appropriate skill level demonstrated through the placement process  
Advisory: Concurrent enrollment in ENGL-162 or ENGL-175  
This course focuses on fundamentals of English grammar, punctuation, and acceptable usage as applied to writing clear sentences, paragraphs, and informal essays. Not applicable to associate degree. (GR)

ENGL-151B  Fundamentals of Composition  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: ENGL-151A with a grade of C or better, or equivalent skill level demonstrated through the placement process  
Advisory: Concurrent enrollment in ENGL-163 or ENGL-175  
This course reviews fundamentals of English grammar, punctuation, and sentence structure and focuses on reading critically and writing well-developed and well-organized paragraphs and essays (descriptive, expository, and argumentative). (GR)

ENGL-156  Introduction to Report and Technical Writing  
3.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-151B or BA-116 or equivalent writing experience  
Accepted For Credit: CSU  
This course is a basic report writing course for persons interested in business, government, and industry who wish to increase their communication skills in job-related areas. (GC)

ENGL-161  Basic Reading Skills for Second Language Learners  
3.00 hrs lecture, 1.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ESL-161  
Advisory: Concurrent enrollment in ESL-182; completion of ENGL/ESL-160 with a grade of C or better  
This course is designed for learners of English as a second language who need to improve basic word attack, reading comprehension, and vocabulary skills. Not applicable to associate degree. Repeatable = 1 time (GC)

ENGL-162  Developmental Reading  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Advisory: Accuplacer assessment or completion of ESL-184RW with a grade of C or better; concurrent enrollment in ENGL-151A encouraged to enhance combined reading and writing skills  
ENGL-162 is an introduction to college reading and study techniques. Students learn to analyze, annotate, and summarize a variety of college readings, including essays, textbooks, chapters, news articles, and stories. Emphasis is on analytical reading: recognizing main ideas, discerning underlying patterns of thought, making inferences and drawing conclusions. Not applicable to associate degree. Repeatable = 1 time (GR)
ENGL-163  Techniques of College Reading
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: Score between 71.5 and 87.5 on the reading portion of Accuplacer Assessment or completion of ENGL-162 with a grade of C or better
Advisory: Concurrent enrollment in ENGL-151B encouraged
ENGL-163 is the most advanced in the series of reading and study skills courses. In this course students will develop college level skills in vocabulary, comprehension, critical reading and thinking, study strategies, reading rate, and written response to reading. Repeatable = 1 time (GR)

ENGL-167  Speed and Critical Reading
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for college-level work or completion of ENGL-163 with a grade of C or better
Accepted For Credit: CSU
This course will enable students to improve comprehension, critical analysis, synthesis, and evaluation of collegiate and technical materials. In addition, it will enable students to reach their optimal reading speeds. (GC)

ENGL-172  Vocabulary Improvement
3.00 hrs lab
Units: 1.00
This course is designed for students of all levels of achievement who wish to improve their vocabulary through an individualized program. Students will be asked to work 54 hours in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-173  Improvement of Learning Techniques
3.00 hrs lab
Units: 1.00
ENGL-173 is for students who wish to improve learning skills through individualized practice of effective reading, studying, and listening. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-174  Spelling Improvement
3.00 hrs lab
Units: 1.00
ENGL-174 is for students who wish to improve spelling skills through individualized practice. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-175  Reading and Comprehension Improvement
3.00 hrs lab
Units: 1.00
ENGL-175 is for students who wish to improve reading comprehension through individualized work on specific weaknesses. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-176  Rapid Reading
3.00 hrs lab
Units: 1.00
Advisory: Ninth grade reading comprehension level
This course is for the student who has at least a ninth grade level of comprehension and who wishes to increase reading rate while maintaining or improving the level of comprehension. Students will be asked to work 54 hours in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 1 time (GC)

ENGL-190  Skills for English Tutors
3.00 hrs lab
Units: 1.00
Advisory: Eligible for ENGL-151B or equivalent
Accepted For Credit: CSU
This course is designed particularly for students wishing to tutor English. It emphasizes methods of effective tutoring, roles and obligations of tutors and tutees, strategies of effective verbal and non-verbal communication, proper study skills and test-taking techniques, awareness of varied learning styles and cultural differences, and basic English skills. Repeatable = 3 times (GC)

ENGL-365  Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

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ENGLISH AS A SECOND LANGUAGE

Division: Humanities, Social Sciences, and Mathematics

ESL-120  Intensive English Grammar Review
1.00 hrs lecture
Units: 1.00
Prerequisite: Completion of ESL-181 with grade of C or better, or placement into ESL-182 or higher
This course is designed to improve grammatical accuracy and fluency in English speaking and writing. This course covers difficult grammatical structures with which students who have studied grammar often struggle. It is recommended for students whose native language is not English. Not applicable to associate degree. (GR)

ESL-121  English Idioms
2.00 hrs lecture
Units: 2.00
Prerequisite: To enroll, students must place into ESL-181 or higher on the ESL Assessment/Placement test
This course helps students learn idiomatic expressions that are commonly used by native speakers in English conversation. Students will listen to and read dialogues containing English idioms and practice producing them in informal dialogues of their own. Not applicable to associate degree. (GC)

ESL-122  News and Current Events for ESL Students
2.00 hrs lecture
Units: 2.00
Prerequisite: To enroll, students must place into ESL-181 or higher on the ESL Assessment Test
Read and discuss news stories and current events. Simplified and standard newspapers will be used. Some writing will be required. Not applicable to associate degree. (GC)

ESL-123  English Verb Tenses
54.00 hrs lecture
Units: 3.00
Prerequisite: Completion of ESL-181RW, or placement into a higher level of ESL or English by means of assessment testing
This course is designed for non-native speakers of English who want a review of the English verb tense system. It emphasizes accurate use of verb tenses in writing, but it will include oral practice as well. Not applicable to associate degree. (GC)
ESL-124 Article and Preposition Use for Non-Native Speakers of English
36.00 hrs lecture
Units: 2.00
This course is designed to provide non-native speakers of English with review and practice in the correct usage of English articles and prepositions. Emphasis will be equally divided between written and oral usage. Not applicable to associate degree. (GC)

ESL-125 Using the Internet for ESL Practice
36.00 hrs lecture
Units: 2.00
This course is designed for non-native speakers of English to learn how to make good use of the rich Internet resources available for learning and practicing English. Students will learn about a variety of ESL websites, and will learn the computer skills necessary to most effectively interact with those resources. Not applicable to associate degree. (GC)

ESL-150 Basic English Pronunciation/Accent Reduction
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Cross-referenced Course: SPCH-150
Advisory: Concurrent enrollment in ESL-181LS
Practice in pronunciation in idiomatic expressions, phraseology, and rhythmic inflections. Emphasis on individual needs in achieving effective oral communication. Not applicable to associate degree. (GC)

ESL-151 Introduction to Speech Communication Skills
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: SPCH-151
Prerequisite: SPCH/ESL-150
This course provides an introduction to basic communication skills for non-native speakers of English for use in classroom presentations. Emphasis will be on communication skills relating to school, personal, and job situations. Not applicable to associate degree. (GC)

ESL-178 ESL Skills Lab
3.00 hrs lab
Units: 1.00
English language learners can improve their language skills through individualized practice in reading skills, grammar, and listening. Students work 5-4 hours in the lab at their convenience. Materials are assigned after pretesting. Repeatable = 3 times Not applicable to associate degree. (CR)

ESL-181LS Listening and Speaking Skills, Level I
5.00 hrs lecture
Units: 5.00
Prerequisite: Based on ESL Placement Test score
This course is designed to develop communication skills in American English. It is open to students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency and vocabulary development. Not applicable to associate degree. (GC)

ESL-181RW Reading and Writing Skills, Level I
5.00 hrs lecture
Units: 5.00
Prerequisite: Based on ESL Placement Test score
This course is designed to develop reading, writing, and grammar skills in American English. It is open to students whose native language is not English. There is practice in the skills of reading, writing, and grammar with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to associate degree. (GC)

ESL-182LS Listening and Speaking Skills, Level II
5.00 hrs lecture
Units: 5.00
Prerequisite: ESL-181LS or appropriate score on the ESL Placement Test
This course is designed to develop skills in American English. It is open to students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to associate degree. (GC)

ESL-182RW Reading and Writing Skills, Level II
5.00 hrs lecture
Units: 5.00
Prerequisite: Appropriate score on the ESL Placement Test or the completion of ESL-181 or ESL-181RW with a grade of C or better
This course is designed to develop skills in American English. It is open to students whose native language is not English. There is practice in the skills of reading, writing, and grammar with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to associate degree. (GC)

ESL-183LS ESL Listening and Speaking, Level III
4.00 hrs lecture
Units: 4.00
Prerequisite: ESL-182LS
This course is designed to develop aural/oral skills in American English for students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency, comprehension, vocabulary development, verb tenses, beginner notetaking, and intermediate sentence structure. This is one of two combined skills courses in the third level of the ESL sequence. Not applicable to associate degree. (GC)

ESL-183RW ESL Reading and Writing, Level III
4.00 hrs lecture
Units: 4.00
Prerequisite: ESL-182RW with grade of C or better
This course is designed to help non-native speakers of English to improve their reading and writing skills in English. It emphasizes academic English skills that are necessary for higher levels of college study, and it is part of the third level of the ESL sequence. Not applicable to associate degree. (GC)

ESL-184RW Reading and Writing, Level IV
4.00 hrs lecture
Units: 4.00
Prerequisite: ESL-183RW with a grade of C or better or appropriate score on the ESL placement test
This is the fourth level in the ESL sequence. It will emphasize reading and writing skills for academic purposes, but it will require oral presentations as well. Not applicable to associate degree. (GC)

ESL-190 Grammar and Editing Skills
3.00 hrs lecture
Units: 3.00
Prerequisite: ESL-183RW with grade of C or better or placement into ESL-184RW, ENGL-151A, or higher level English course
This course is designed to help non-native speakers of English improve their grammar and editing skills, but is open to native speakers as well. It is open to students who are enrolled in or have completed any of the following courses: ESL-184RW, ENGL-151A, ENGL-151B, or ENGL-101A. Not applicable to associate degree. (CR)
ESL-365 ESL – Supervised Tutoring
5.00 hrs lecture
Units: 0.00
Prerequisite: Instructor or Counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with a tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

FREN-101A Elementary French
5.00 hrs lecture, 1.00 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is an introduction to the reading, writing, speaking, and understanding of French. (GR) (FREN-101A + FREN-101B = CAN FREN SEQ A)

FREN-101B Elementary French
5.00 hrs lecture, 1.00 hrs lab
Units: 5.00
Prerequisite: FREN-101A with a grade of C or better or 2 years of high school French
Accepted For Credit: CSU & UC
This course is a continuation of FREN-101A. It covers the fundamentals of French grammar in addition to reading, writing, and speaking the language. (GR) (FREN-101A + FREN-101B = CAN FREN SEQ A)

FREN-102A Intermediate French
5.00 hrs lecture, 1.00 hrs lab
Units: 5.00
Prerequisite: FREN-101B with a grade of C or better or 3 years of high school French
Accepted For Credit: CSU & UC
This course is a review of grammar, oral, and written composition and a study of French culture. (GR) (FREN-102A + FREN-102B = CAN FREN SEQ B)

FREN-102B Intermediate French
5.00 hrs lecture, 1.00 hrs lab
Units: 5.00
Prerequisite: FREN-102A with a grade of C or better
Accepted For Credit: CSU & UC
This course is a continuation of FREN-102A that covers advanced grammar, oral, and written composition and the study of the French civilization. (GR) (FREN-102A + FREN-102B = CAN FREN SEQ B)

FREN-110 Beginning Conversational French
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
This course focuses on the essentials of French conversation leading to the development of the ability to use the French language in everyday situations. Extensive oral practice of the language is combined with fundamental grammatical concepts. Repeatable = 3 times (GC)

FREN-111 Individualized French Lab
1.50 hrs lab
Units: 0.50
Accepted For Credit: CSU
This course involves individual and independent laboratory studies to increase students' proficiency in oral and written French. Repeatable = 3 times to a maximum of 4 units (GR)

FREN-112 Individualized French Lab
3.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
This course involves individual and independent laboratory studies to increase students' proficiency in oral and written French. Repeatable = 3 times to a maximum of 4 units (GR)

GEOG-101 Physical Geography
3.00 hrs lecture; 3.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Interaction between humans, their physical environment, weather, pollution, climate, land forms, soil, vegetation, earthquakes and volcanism, water quality and environmental management. Lab exercises covering these topics, one field trip scheduled. (GC) (CAN GEOG 2)

GEOG-102 Cultural Geography
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course will focus on the study of the origin, spread, and regional differences of human cultures as they relate to the use of the earth and how they relate to their physical environments. The course explores how different people use and/or abuse or otherwise change the earth as the home of humanity. (GC) (CAN GEOG 4)

GEOG-104 The World’s Nations
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course deals with the regional variations of the world and its effects of human modification of the physical environment. The factors contributing to landscape change such as settlement patterns, transportation networks, types of agriculture, and the various types of land tenure systems; current world problems and environmental issues are also discussed. (GC)

GEOG-105 California Geography
3.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course will examine the origins, the migrations, and the patterns of both the cultural and natural realms that have molded and shaped the State of California. Phenomena such as climate, tectonic activity, soils, and land forms will be examined. These will provide insight into the economic, political, and historical past. In addition, the interactions between people and the environment in the State of California both present and future will be explored. (GC)
GEOL-101 Introduction to Geology  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU & UC  
Geological processes that shape the earth and its history. Special attention is given to the global geological phenomena (earthquakes, volcanoes, plate tectonics), the concept of “deep” time, natural resources, and the interaction between humans and their environment. (GC)  

GEOL-102 Introduction to Oceanography  
3.00 hrs lecture  
Units: 3.00  
Advisor: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
The study of the marine realm from the physical, biological, and cultural perspective including the origin of the oceans, plate tectonics, waves, tides, marine life, and human impact on the marine environment. Field trip includes a Bay cruise. (GC)  

GEOL-102L Oceanography Laboratory  
3.00 hrs lab  
Units: 1.00  
Corequisite: GEOL-102  
Advisor: Eligible for ENGL-151B and ENGL-163; GEOL-103L recommended  
Accepted For Credit: CSU & UC  
This course is a journey through time that examines the history of life from its beginnings to the end of the last Ice Age, the changing Earth, evolution, mass extinctions, and fossils of dinosaurs and their relatives. Up to two Saturday field trips. (GC)  

GEOL-103 Paleontology and Dinosaurs  
3.00 hrs lecture  
Units: 3.00  
Advisor: Eligible for ENGL-151B and ENGL-163; GEOL-103L recommended  
Accepted For Credit: CSU & UC  
This course introduces students to scientific research methods. It includes hypothesis writing, variable identification, experimental design, literature reviews, data interpretation and analysis, research proposal preparation, and presentation of scientific papers. (GR)  

GEOL-365 Supervised Tutoring  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or Counselor Referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)  

GEOG-101L Paleontology Laboratory  
3.00 hrs lab  
Units: 1.00  
Corequisite: GEOL-103  
Advisor: Eligible for ENGL-151B, ENGL-163; ENGL-172  
Accepted For Credit: CSU & UC  
GEOL-103L is designed to supplement GEOL-103. The labs will consist of hands-on studies of actual fossil specimens of animals and plants from all over the world and representing different stages in the evolution of life on earth. The lab exercises will be supplemented by Internet assignments and a small group project. Saturday field trip(s) required in lieu of scheduled lab time. (GC)  

GEOG-122 Environmental GIS  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Prerequisite: GEOG-121  
Advisory: CS-101L  
Accepted For Credit: CSU  
GIS skills applied to issues such as air pollution, urban design, environmental health, and water resources. (GC)  

GEOG-123 GIS Projects  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Prerequisite: GEOG-121  
Advisory: Familiarity with Windows OS and some knowledge of database programs is advantageous  
Accepted For Credit: CSU  
This course enables students to manage small or large GIS projects using student-initiated or work-related database by using basic knowledge acquired in GEOG-121. Emphasis is on developing skills needed for solving real-world problems and for analysis of spatial relationships using GIS. Repeatable = 1 time (GC)  

GEOG-365 Supervised Tutoring  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or Counselor Referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)  

GEOLOGY  
Division: Science, Technology, and Academic Affairs  

GEOG-122 Environmental GIS  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Prerequisite: GEOG-121  
Advisory: CS-101L  
Accepted For Credit: CSU  
The objective of this introductory course is to gain basic knowledge of GIS concepts, techniques, and applications. Emphasis is to provide a hands-on instruction on the functionality of GIS as an effective tool for modeling and analyzing complex spatial relationships. (GC)  

GEOG-123 GIS Projects  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Prerequisite: GEOG-121  
Advisory: CS-101L  
Accepted For Credit: CSU  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. (GC)  

GEOG-365 Supervised Tutoring  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or Counselor Referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)
### ANNOUNCEMENT OF COURSES

#### GRAPHIC ARTS
Division: Fine Arts, Business, and Broadcasting

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture</th>
<th>Lab</th>
<th>Prerequisites</th>
<th>Advisory</th>
<th>Cross-referenced Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>GA-109A</td>
<td>Beginning Graphic Design I</td>
<td>4.00</td>
<td>2.00</td>
<td>7.00</td>
<td>GA-109A or ART-109A</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This course is an introduction to graphic design. It will cover the fundamentals of letter form design with traditional and contemporary alphabets. Studio practice will emphasize the relationships between image and message. Repeatable = 3 times (GC)</td>
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<tr>
<td>GA-109B</td>
<td>Beginning Graphic Design II</td>
<td>3.00</td>
<td>2.00</td>
<td>7.00</td>
<td>GA-109B or ART-109B</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This course is an introduction to the pictorial image and written word as basic components in a format for communications. The studio practice develops students’ ability to formulate and communicate a concept into graphic form for both presentation and production. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>GA-110A</td>
<td>Advanced Graphic Design I</td>
<td>3.00</td>
<td>2.00</td>
<td>7.00</td>
<td>GA-109A or ART-109A</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This is an advanced class. The emphasis is on students’ problem-solving ability. It includes comprehensive projects in applied graphics and three-dimensional design. There is instruction in techniques for package design, product visualization, execution of 3-D design prototypes for presentation and photography. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>GA-110B</td>
<td>Advanced Graphic Design II</td>
<td>3.00</td>
<td>2.00</td>
<td>7.00</td>
<td>GA-109B or ART-109B</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This course gives advanced attention to design solution and presentation. The class deals with the development of a single all-inclusive graphic design project. The emphasis is on effective client relationship from concept development through assignment completion. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>GA-160A</td>
<td>Computer Graphics I</td>
<td>4.00</td>
<td>3.00</td>
<td>9.00</td>
<td>GA-109A or ART-109A</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This course is an introduction to computers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>GA-160B</td>
<td>Computer Graphics II</td>
<td>4.00</td>
<td>3.00</td>
<td>9.00</td>
<td>GA-109A or ART-109A</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This course is a continuation of GA-160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. Students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>GA-161A</td>
<td>Digital Graphics I</td>
<td>2.00</td>
<td>1.00</td>
<td>5.00</td>
<td>GA-109B or ART-109B</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This course is a lab component for all Graphic Arts/Computer Graphics courses. Students will produce digital graphic projects for art and graphic design classes. Repeatable = 3 times (CR)</td>
</tr>
<tr>
<td>GA-161B</td>
<td>Digital Graphics II</td>
<td>2.00</td>
<td>1.00</td>
<td>5.00</td>
<td>GA-109B or ART-109B</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This course is a continuation of GA-161A. The emphasis in this course is on developing intermediate and advanced skills needed to set up and operate a digital graphics work station and publish on the Web. Students complete projects of their choice using complex graphics software, scanners, tablets, and printers. The course emphasis is on the continued development of a portfolio of computer images. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>GA-162</td>
<td>Digital Graphics Lab</td>
<td>1.00</td>
<td>1.00</td>
<td>5.00</td>
<td>GA-109B or ART-109B</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This is a lab component for all Graphic Arts/Computer Graphics courses. Students will produce digital graphic projects for art and graphic design classes. Repeatable = 3 times (CR)</td>
</tr>
<tr>
<td>GA-163</td>
<td>Digital Arts Lab-Macintosh</td>
<td>0.50</td>
<td>1.50</td>
<td></td>
<td>GA-109B or ART-109B</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This class is a lab component for all Graphic Arts/Computer Graphics courses. Students will produce digital graphic and drafting projects for related classes. Repeatable = 3 times (CR)</td>
</tr>
<tr>
<td>GA-169A</td>
<td>Digital Photography</td>
<td>1.00</td>
<td>1.00</td>
<td>7.00</td>
<td>GA-109B or ART-109B</td>
<td>CSU</td>
<td>ART-104A</td>
<td>This photography course on the Macintosh computer is a personal training class based on the software application Adobe Photoshop. Students will learn to navigate the application, build files, use several tools for manipulating images, and ultimately gain command of reproducing photographic images using alpha channels, layers, and filters. Repeatable = 1 time (GR)</td>
</tr>
</tbody>
</table>
GA-169B  Intermediate Digital Photography
1.00 hrs lecture, 7.00 hrs lab  
Units: 2.00
Cross-referenced Course: ART-139B, CS-169B  
Prerequisite: ART-139A, GA-169A, CS-169A, or approval by portfolio review  
Accepted For Credit: CSU  
This is an intermediate course on the Macintosh computer utilizing two software applications, namely Adobe Photoshop and Apple QuickTime VR Authoring Studio. Students will learn to develop QuickTime VR objects, panoramas, and scenes for use with desktop publishing, print publishing, or Website development. Students will need a camera for capturing images to be used in projects. Repeatable = 1 time (GR)

GA-188  Desktop Publishing with QuarkXpress
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00
Cross-referenced Course: CAOT-188  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This is an introductory course in Desktop Publishing (DTP) with QuarkXPress software. Business documents which contain text and graphics will be designed, created, edited, and printed. (GC)

HEALTH
Division: Health Sciences and Academic Affairs

HLTH-101  Health Science
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course promotes personal, family, and community well-being and includes ways to obtain and maintain optimum wellness. (GC)

HLTH-150  Women's Health Issues
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: WS-150  
Prerequisite: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a study of the contemporary issues of women's health at home and at work, from the biological, psychological, and sociological perspectives that affect women in American culture including such topics as mental health, sexuality, parenting, nutrition, exercise, rape and battery, aging, occupational health, and cultural diversity. (GC)

HISTORY
Division: Humanities, Social Sciences, and Mathematics

HIST-104A  Western Civilization with a World Perspective
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a survey of the cultural, social, and political developments of civilization in the Mediterranean through the beginning of early modern history. This course takes an interdisciplinary approach to the study of Western Civilization before 1600 and includes a world perspective. (GC) (CAN HIST 2 OR HIST-104A + HIST-104B = CAN HIST SEQ A)

HIST-104B  Western Civilization with a World Perspective
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a survey of the cultural, social, and political developments in Western Civilization with a world perspective from the rise of the nation-state through contemporary times with a speculative look at the future. (GC) (CAN HIST 4 or HIST-104A + HIST-104B = CAN HIST SEQ A)

HIST-105  History of California
3.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course covers the heritage and development of California from its beginnings to the present day with emphasis on the economic, social, ethnic, multicultural, and political forces which shaped the modern state. The Golden State's phenomenal growth and multicultural changes are emphasized. (GC)

HIST-107  History of Film
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: TD-107  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course examines the impact of film on our lives and history. Students will review films and discuss and analyze techniques used. (GR)

HIST-112  Chicano History
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CHS-102  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course covers the development of Chicano history. Special emphasis will be placed upon the influence of Chicano history on contemporary institutions, particularly in the Southwest and California. (GC)

HIST-114A  African-American History 1619 to 1877
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course covers the history of African Americans from the early 17th century to 1877. Political, social, cultural, and economic experiences will be discussed. (GC)
HIST-115  Asian-American History
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course will cover a history of the Asian-American experience. Groups surveyed will include Korean, Filipino, Asian Indian, Pacific Islanders, South East Asian, Japanese, and Chinese. (GC)

HIST-117A  History of the United States
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course surveys the history of the United States from pre-colonial times through Reconstruction (1877). (GC) (CAN HIST 8 or HIST-117A + HIST-117B = CAN HIST SEQ B)

HIST-117B  History of the United States
3.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course surveys the history of the United States from 1877 (the end of Reconstruction) to the present. (GC) (CAN HIST 10 or HIST-117A + HIST-117B = CAN HIST SEQ B)

HIST-118  Contemporary U.S. History: 1945 -
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163, HIST-117A/B
Accepted For Credit: CSU & UC
This course surveys the post-World War II role of the United States in world affairs and explores the socio-political development of the nation from 1945 to the present. It will emphasize the growing cultural pluralism of twentieth century America. (GC)

HIST-119A  Bad Girls: Women in America Before 1890
3.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU
Women before 1890 faced numerous hardships in their struggles for equality. This course traces women of different racial and ethnic backgrounds as they challenge social, economic, political, and gender norms in North America. The course explores how women have negotiated issues such as race, class, gender, work/labor, and sexuality. (GC)

HIST-119B  Bad Girls: Women in American From 1890
3.00 hrs lecture
Units: 3.00
Advisory: Pass ENGL-101A
Accepted For Credit: CSU
Women in the United States after 1890 faced numerous hardships in their struggles for equality. This course traces women of different racial and ethnic backgrounds as they challenge social, economic, political, and gender norms in North America. The course explores how women have negotiated issues such as race, class, gender, work/labor, and sexuality. (GC)

HIST-141  A History of Early Rock and Roll:
Music and Culture of the 1950's
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-142, MUS-122
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950's – Bill Haley, Fats Domino, Elvis Presley, Chuck Berry and Little Richard – will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student's appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and the American Culture. The course will chart how rock & roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)

HIST-142  History of Rock and Roll:
Music and Culture of the 1960's
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-143, MUS-123
Accepted For Credit: CSU & UC
This course charts the evolution of Rock & Roll music from the late 1950s through the 1960s focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students' appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society. (GC)

HIST-143  History of Rock and Roll:
Music and Culture since 1970
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: MUS-125
Accepted For Credit: CSU & UC
This course examines the development of popular music and its relationship to general culture and society since 1970. It will include identification and analysis of art rock, disco, new wave, reggae, rap, hip-hop, worldbeat, and other musical genres through online reading, lectures, and in-class demonstrations. (GR)

HIST-365  Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or Counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with a tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)
INTERDISCIPLINARY STUDIES

Division: Fine Arts, Business, and Broadcasting

IS-100
Survey of the Arts
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ART-100, MUS-100, TD-100
Corequisite: IS-100L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to the historical experiences of selected ethnic minority communities in the United States which affect how minorities view themselves in relationship to the larger United States society. Exploration of such issues as affirmative action, differential educational needs, and cross-cultural learning and communication patterns will be studied. (GC)

IS-100L
Survey of the Arts Performance Attendance Lab
6.00 hrs lab
Units: 0.00
Cross-referenced Course: ART-100L, TD-100L, MUS-100L
Corequisite: IS-100
This is a concert, performance, or gallery attendance lab component for Survey of Arts course requiring attendance at selected events offered by the Smith Center for the Fine and Performing Arts. (NG)

IS-110
Introduction to Ethnic Studies
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to the historical experiences of selected ethnic minority communities in the United States which affect how minorities view themselves in relationship to the larger United States society. Exploration of such issues as affirmative action, differential educational needs, and cross-cultural learning and communication patterns will be studied. (GC)

IS-120
Women of the Western World
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: WS-120
Prerequisite: ENGL-101A
Accepted For Credit: CSU & UC
This course is an interdisciplinary course involving an overview of women’s traditional roles in the western world; the history of the feminist movement, past and present; and an attempt to define the changing role of women in a diverse contemporary American society. Cross-cultural information about women’s roles in other societies will be regularly introduced. (GC)

IS-142
A History of Early Rock and Roll: Music and Culture of the 1950’s
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-141, MUS-122
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950’s – Bill Haley, Fats Domino, Elvis Presley, Chuck Berry and Little Richard – will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student’s appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and the American Culture. The course will chart how rock & roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)

History of Rock and Roll:
Music and Culture of the 1960’s
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-142, MUS-123
Accepted For Credit: CSU & UC
This course charts the evolution of Rock & Roll music from the late 1950s through the 1960s focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students’ appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society. (GC)

INTERIOR DESIGN

Division: Fine Arts, Business, and Broadcasting

ID-150A
Interior Design Concepts
3.00 hrs lecture, 2.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-150A
Accepted For Credit: CSU
This is an introductory course. Students analyze interiors using basic design concepts. Principles and techniques used by professional interior designers are demonstrated. Case studies in problem solving with an emphasis on residential interiors are presented. Repeatable = 1 time (GC)

ID-150B
Interior Design
2.00 hrs lecture, 4.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-150B
Prerequisite: ID/ART-150A
Accepted For Credit: CSU
This course is a continuation of ID-150A. Interior design theories and methodologies are explored in depth through case studies emphasizing the design of public space. Repeatable = 3 times (GC)

ID-151
Visualization and Presentation
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-151
Advisory: ID-150A, ID-155A or ART-108
Accepted For Credit: CSU
This course familiarizes students with current methods and materials used in the design industry to develop concepts and communicate ideas. Students will prepare a design portfolio. Repeatable = 3 times (GC)

ID-153
History of Decorative Arts
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ART-153
Accepted For Credit: CSU
Students study furniture construction, styles, and periods in conjunction with the architecture and related decorative arts of each era from ancient times to the present. This course includes a brief political, religious, and cultural history which significantly influenced these arts. (GC)
ID-154  Contemporary Home Design
2.00 hrs lecture
Units: 2.00
Cross-referenced Course: ART-154
Accepted For Credit: CSU
Students will study the architectural history of home design and learn practical applications of information relating to design, construction methods, and economic practices. (GC)

ID-155A  Architectural Drafting for Interior Design
2.00 hrs lecture, 4.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-155A
Advisory: Concurrent with ART/ID/GA-163
Accepted For Credit: CSU
This course will introduce basic drafting techniques as related to architectural working drawings for interior design. Construction materials and procedures will be presented. Repeatable = 3 times (GC)

ID-155B  CAD for Interior Design
2.00 hrs lecture, 7.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-155B
Prerequisite: ART/ID/-155A or equivalent
Accepted For Credit: CSU
This course focuses on the fundamentals of computer-aided drafting as related to interior design and architectural drawings through understanding concepts rather than memorizing commands. Drawing skills are learned and developed by applying these concepts to solve practical laboratory problems. Repeatable = 3 times (GC)

ID-156  Architectural Modelmaking for Interior Design
2.00 hrs lecture, 4.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-156
Accepted For Credit: CSU
Scale models will be developed in this class for presenting and studying architectural and interior design. A wide range of materials and processes will be explored. Repeatable = 3 times (GC)

ID-157  Professional Practice for Interior Design
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ART-157
This class introduces basic business practices for interior designers. It also includes an overview of career paths, business planning and organization, professional associations, marketing, sales, wholesale resource development, contractual obligations, and ethics. It is designed for people preparing to enter the field of interior design. (GC)

ID-158  Textiles
2.00 hrs lecture, 4.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-158
Accepted For Credit: CSU
Students in this course will study the physical and chemical properties of fibers, fabrication systems for yarns and fabrics, the technology of fabric dyes, and decorative processes and finishes. The application of these principles to interior furnishings and appointments are an integral part of the laboratory experience for this course, and provide practical applications for students of interior design. (GC)

ID-159A  Applied Design: Residential Lighting
1.00 hrs lecture
Units: 1.00
Cross-referenced Course: ART-159A
Accepted For Credit: CSU
This seminar will present an overview of basic considerations necessary to plan, choose, and place lighting fixtures throughout a home to help define space, articulate atmosphere, direct attention, and facilitate activities. Repeatable = 3 times (GC)

ID-159B  Applied Design: Color for the Home
1.00 hrs lecture
Units: 1.00
Cross-referenced Course: ART-159B
Accepted For Credit: CSU
This seminar will explore various approaches that may be followed to arrive at color schemes that are satisfying, comfortable, and exciting. Repeatable = 3 times (GC)

ID-163  Digital Arts Lab-Macintosh
1.50 hrs lab
Units: 0.50
Cross-referenced Course: ART-163, GA-163
This course is a lab component for all courses taught on the Macintosh and on drafting equipment in these areas: Art, Graphic Arts/Computer Graphics, Photography, and Interior Design. Students will produce digital graphic and drafting projects for art related classes. Repeatable = 3 times (CR)

INTERPRETER TRAINING

INT-101  Interpreting As a Career
1.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
This course gives students general information about the field of interpreting. Topics include history, definitions of interpreting, modes and methods, the need for interpreting, code of ethics, interpreting settings, and evaluation and certification of interpreters. (GC)

INT-106  ASL Discourse
3.00 hrs lecture
Units: 3.00
Prerequisite: Acceptance into the IPP
Corequisite: INT-107, INT-110, INT-112, INT-115
This course introduces students to signing beyond the conversational level. Students are exposed to signed situations of complexity and diversity to improve both receptive and expressive skills. Receptive skill development focuses on increased comprehension of a variety of signing styles. Expressive skill development focuses on improved clarity, fluency, and speed. Repeatable = 1 time (GR)

INT-107  Interpreter Orientation
3.00 hrs lecture
Units: 3.00
Prerequisite: Acceptance into the IPP
This course provides students with a working knowledge of the interpreting profession and examines basic principles and practices of interpreting. Through class discussion and structured activities, students will examine their values, attitudes, experiences, strengths, weaknesses, and interpersonal skills and how these affect themselves, their clients, and their role as professional interpreters. Repeatable = 1 time (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT-110</td>
<td>ASL-English/English-ASL Translation</td>
<td>2.00</td>
<td>Acceptance into IPP</td>
<td>This course is designed to familiarize students with the process of analyzing ASL and English texts. Translation theory and transcription codes will be addressed. Students will generate translations of texts with factors such as genre, audience, and context. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-112</td>
<td>Applied Linguistics for Interpreters</td>
<td>3.00</td>
<td>Acceptance into IPP</td>
<td>This course is designed for first year Interpreting Program students. The syntactic structures of ASL are reviewed, followed by an in-depth study of English syntax as it relates to semantics and interpreting. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-115</td>
<td>Interpreting Preparation Skills</td>
<td>1.00</td>
<td>Acceptance into IPP</td>
<td>This course provides the theoretical basis for interpretation. The interpreting process is broken down into process parts, isolated, and then practiced. Skills include memory, discrimination, cloze, text analysis, and information mapping. Expressive fingerspelling is also practiced. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-120</td>
<td>Consecutive Interpreting: English/ASL</td>
<td>2.00</td>
<td>Completion of first semester of IPP courses with grade of C or better</td>
<td>This course is designed to give IPP students exposure to and experience with processed interpreting theory as it relates to consecutive interpreting. The target language is American Sign Language. Discussion includes interpreting theory, discourse analysis, and grammatical structures of ASL. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-121</td>
<td>Consecutive Interpreting: ASL/English</td>
<td>2.00</td>
<td>Completion of first semester IPP courses with a C or better</td>
<td>This course is designed to give IPP students theoretical and practical experience in monologic and dialogic consecutive interpreting. The target language is standard spoken English. Focus is on English grammatical structure, process time, vocal inflection, voice clarity, and monitoring. Clarification and correction techniques will be practiced. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-145</td>
<td>Practicum: Deaf Mentorship</td>
<td>15.00</td>
<td>Completion of first semester IPP courses with grade of C or better</td>
<td>This course is designed to provide IPP students exposure to Deaf adults and the role of the interpreter in a variety of settings. Students may be provided the opportunity to do some low-risk interpreting. A weekly seminar is included for group discussion of practicum experience. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-160</td>
<td>Simultaneous Interpretation: English/ASL</td>
<td>3.00</td>
<td>Completion of first year IPP courses with grade of C or better</td>
<td>This course is designed to give IPP students theoretical and practical experience in simultaneous interpreting. The target language is ASL. Focus includes developing dual task capabilities, whole language processing, discourse analysis, lag time, fluency, and sign clarity. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-161</td>
<td>Simultaneous Interpreting: ASL/English</td>
<td>3.00</td>
<td>Completion of first year IPP courses with grade of C or better</td>
<td>This course is designed to expose IPP students to theoretical and practical experience in simultaneous interpreting. The target language is standard spoken English. Emphasis is on English grammatical structure, process time, vocal inflection, voice clarity, and monitoring. Clarification and correction techniques will be practiced. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-173</td>
<td>Interpretation in Specialized Settings</td>
<td>3.00</td>
<td>Completion of first year IPP courses with grade of C or better</td>
<td>This course examines the various work settings of interpreters. Discussion and role play format this course. Telephone, educational, medical, mental health, platform and conference, community, and religious interpreting are covered. This course is taught in ASL only. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-175</td>
<td>Specialized Interpreting Technique</td>
<td>3.00</td>
<td>Completion of first year IPP courses with grade of C or better</td>
<td>This course is designed to give students the background, exposure, and strategies necessary when interpreting for specialized populations such as foreign-born, deaf-blind, and oral Deaf adults. Specialized techniques that are taught include dialogic (interactive) interpreting, team interpreting, interpreting for media presentation. Interpreting in a multicultural world will also be addressed. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>INT-180</td>
<td>Ethics, Role, Responsibility</td>
<td>3.00</td>
<td>Completion of three semesters of IPP courses with grade of C or better</td>
<td>Through lecture, discussion, and role play this course will define ethics related terms, discuss values in American society, and those values that underlie the code of ethics of the Registry of Interpreters for the Deaf (RID). Further clarification of interpreter role, professional behavior, the business of interpreting, RID Certification, and professional liability will be included. This course is taught in ASL only. Repeatable = 1 time (GR)</td>
</tr>
</tbody>
</table>
INT-181  Transliteration
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: Completion of three semesters of IPP courses with grade of C or better
Corequisite: INT-180 and INT-190
This course will discuss transliteration theory and application. IPP students will develop the skills required to accurately interpret a spoken message into signed English and a signed English message into standard spoken English. The areas of concentration are facial grammar, mouth movement, fingerspelling, and monitoring for complete thoughts through the use of juncture and vocal/body inflection. Repeatable = 1 time (GR)

INT-190  Interpreting Internship
15.00 hrs lab
Units: 5.00
Prerequisite: Completion of three semesters of IPP courses with grade C or better
Corequisite: INT-180 and INT-181
This course is designed to give IPP students a concentrated field experience in interpreting. Students will spend 200 hours working in several facilities providing interpreting services to Deaf individuals. Students will have on-site, RID-certified interpreters as their supervisors. A weekly seminar with the instructor will focus on interpreting issues and fieldwork experiences. Repeatable = 1 time (GR)

INT-191A  ASL Interpreting Workshops
1.00 hrs lecture
Units: 1.00
Prerequisite: Working interpreter experience and 4 semesters of ASL
This course is a workshop for working interpreters covering selected topics in the field of sign language interpreting. The theme and content of each workshop varies and is determined by the faculty. Repeatable = 3 times (CR)

INT-191B  ASL Interpreting Workshops
2.00 hrs lecture
Units: 2.00
Prerequisite: Working interpreter experience 4 semesters of ASL
This course is a workshop for working interpreters covering selected topics in the field of sign language interpreting. The theme and content of each workshop varies and is determined by the faculty. Repeatable = 3 times (CR)

INT-191C  ASL Interpreting Workshops
3.00 hrs lecture
Units: 3.00
Prerequisite: Working interpreter experience; 4 semesters of ASL
This course is a workshop for working interpreters covering selected topics in the field of sign language interpreting. The theme and content of each workshop varies and is determined by the faculty. Repeatable = 3 times (CR)

INT-195A1  Work Experience Education – Vocational
4.20 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) (GC)

INT-195A2  Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) (GC)

INT-195A3  Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) (GC)

INT-195A4  Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Work Experience Education Department Notes
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) (GC)

ITAL-101A  Elementary Italian
5.00 hrs lecture, 1.00 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is an introduction to the speaking, reading, and writing of Italian and includes fundamentals of grammar. (GR)

ITAL-101B  Elementary Italian
5.00 hrs lecture, 1.00 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a continuation of ITAL-101A. It covers fundamentals of Italian grammar in addition to reading, writing, and speaking the language. It also includes studies of Italian culture. (GR)

ITAL-121A  Beginning Conversational Italian
3.00 hrs lecture
Units: 3.00
This course teaches essentials in Italian conversation leading to the development of oral use of the Italian language in everyday situations. The student will experience extensive oral practice of the language as well as essential grammatical fundamentals. (GC)
# Japanese

**Division: Humanities, Social Sciences, and Mathematics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Advisory</th>
<th>Accepted For Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPNS-101A</td>
<td>Elementary Japanese</td>
<td>5.00</td>
<td>1.00</td>
<td>5.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>This course is a continuation of speaking, understanding, reading, and writing Japanese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. (GR)</td>
</tr>
<tr>
<td>JPNS-101B</td>
<td>Elementary Japanese</td>
<td>5.00</td>
<td>1.00</td>
<td>5.00</td>
<td>Prerequisite: JPNS-101A or equivalent</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>This course is a continuation of JPNS-101B with emphasis on the four areas of listening, speaking, reading, and writing in Japanese, as well as the study of Japanese culture with greater depth. (GR)</td>
</tr>
<tr>
<td>JPNS-102A</td>
<td>Intermediate Japanese</td>
<td>5.00</td>
<td>1.00</td>
<td>5.00</td>
<td>Prerequisite: JPNS-101B</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>This course is a continuation of JPNS-102A with emphasis on the four areas of listening, speaking, reading, and writing in Japanese, as well as the study of Japanese culture with greater depth. (GR)</td>
</tr>
<tr>
<td>JPNS-102B</td>
<td>Intermediate Japanese</td>
<td>5.00</td>
<td>1.00</td>
<td>5.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>This course is a continuation of JPNS-102A with emphasis on the four areas of listening, speaking, reading, and writing in Japanese, as well as the study of Japanese culture with greater depth. (GR)</td>
</tr>
<tr>
<td>JPNS-110</td>
<td>Japanese Culture, Manner, and Conversation</td>
<td>3.00</td>
<td></td>
<td>3.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td>CSU</td>
<td>This course is an introduction to culture, manner, and conversation necessary to interact with Japanese on a social and business basis. Limited conversational skills will be introduced. (GC)</td>
</tr>
<tr>
<td>JPNS-120A</td>
<td>Beginning Conversational Japanese</td>
<td>3.00</td>
<td></td>
<td>3.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td>CSU</td>
<td>This course is designed to enable students to immediately use the language in everyday situations. The course will focus on teaching students the language they need for communication with Japanese speakers. Japanese customs and manners are also introduced. Repeatable = 2 times (GC)</td>
</tr>
</tbody>
</table>

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# Journalism

**Division: Fine Arts, Business, and Broadcasting**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Advisory</th>
<th>Accepted For Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR-101A</td>
<td>Newswriting</td>
<td>3.00</td>
<td></td>
<td>3.00</td>
<td>Prerequisite: ENGL-101A with grade of C or better</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>This course trains students in newswriting techniques, interviewing, feature writing, ethics, and legal responsibilities. Online and broadcasting newswriting techniques are included. (GR) (CAN JOUR 2)</td>
</tr>
<tr>
<td>JOUR-106</td>
<td>Censorship and Literature</td>
<td>3.00</td>
<td></td>
<td>3.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>This literature course focuses on the issues of censorship and obscenity. Selected works will be closely examined in an attempt to encourage students to formulate their own standards in this controversial area. (GC)</td>
</tr>
<tr>
<td>JOUR-145</td>
<td>Digital Photojournalism</td>
<td>1.00</td>
<td>3.00</td>
<td>2.00</td>
<td></td>
<td>Eligible for ART-133A or equivalent</td>
<td>CSU</td>
<td>This course is designed for students with a career or consumer interest in photography as a communication art. The history, techniques, philosophy, and markets of photojournalism are explored through lectures, discussions, and appropriate photographic assignments. Emphasis is on photography as a complement to printed material. Digital photographic techniques are stressed using scanners and PhotoShop. (GC)</td>
</tr>
<tr>
<td>JOUR-146</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>0.50</td>
<td>1.50</td>
<td>1.00</td>
<td></td>
<td>Eligible for ART-106A or ART-133A or equivalent</td>
<td>CSU</td>
<td>Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the campus newspaper and/or magazine. Training emphasizes use of techniques and skills that communicate ideas effectively to a mass media audience. Photographers and artists have access to Macintosh computers, scanners, and PhotoShop for completion of assignments. Students are also introduced to legal and ethical responsibilities. Repeatable = 3 times to a maximum of 9 units (GC)</td>
</tr>
<tr>
<td>JOUR-147</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>1.00</td>
<td>3.00</td>
<td>2.00</td>
<td></td>
<td>Eligible for ART-106A or ART-133A or equivalent</td>
<td>CSU</td>
<td>Staff members initiate, plan and complete photographic or graphic art assignments for publication in the campus newspaper and/or magazine. Training emphasizes use of techniques and skills that communicate ideas effectively to a mass media audience. Photographers and artists have access to Macintosh computers, scanners, and PhotoShop for completion of assignments. Students are also introduced to legal and ethical responsibilities. Repeatable = 3 times to a maximum of 9 units (GC)</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Enrollment Notes</td>
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</tbody>
</table>
| JOUR-148   | Photography/Graphic Arts Newspaper Staff         | 1.00  | Cross-referenced Course: ART-148  
Advisory: ART-106A or ART-133A or equivalent  
Accepted For Credit: CSU  
Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the campus newspaper and/or magazine. Training emphasizes use of techniques and skills that communicate ideas effectively to a mass media audience. Photographers and artists have access to Macintosh computers, scanners, and Photoshop for completion of assignments. Students are also introduced to legal and ethical responsibilities (JOUR/ART-148 is limited to editors). Repeatable = 3 times to a maximum of 9 units (GC) |
| JOUR-155   | Mass Media and Society                           | 3.00  | Cross-referenced Course: BRDC-155  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course teaches the basics of how mass media work – who is saying what to whom, through which channel, and why. Since we all consume mass communication, the course aims at a greater understanding of the communication process. It is useful for both communication majors and for the general consumer. Field trips and guest speakers are arranged. (GC) (CAN JOUR 4) |
| JOUR-170   | Newspaper Writing and Editing Staff             | 0.50  | Units: 1.00  
Advisory: Completion of, or concurrent enrollment in, JOUR-101A  
Accepted For Credit: CSU  
Staff members gather information, write, and edit stories for publication in the campus newspaper, the Monitor. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOUR-170 students are expected to contribute one story per issue. Repeatable = 3 times to a maximum of 9 units for JOUR-170-172 (GR) |
| JOUR-171   | Newspaper Writing and Editing Staff             | 1.00  | Units: 2.00  
Advisory: Completion of, or concurrent enrollment in, JOUR-101A  
Accepted For Credit: CSU  
Staff members gather information, write, and edit stories for publication in the campus newspaper, the Monitor. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOUR-171 students contribute two stories and help with layout. Repeatable = 3 times for a maximum of 9 units for JOUR-170-172 (GR) |
| JOUR-172   | Newspaper Writing and Editing Staff             | 1.00  | Units: 3.00  
Advisory: Completion of, or concurrent enrollment in, JOUR-101A  
Accepted For Credit: CSU  
Staff members gather information, write, and edit stories for publication in the campus newspaper, the Monitor. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOUR-172 students are usually editors and senior writers. Repeatable = 3 times to a maximum of 9 units for JOUR-170-172 (GR) |
| JOUR-173   | Magazine Writing and Editing Staff              | 0.50  | Units: 1.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course offers students practical experience in preparing feature, informative, and/or literary materials for the student magazine. They also plan and design the publication and conduct an annual literary-art contest. JOUR-173 is for specialized writers. Repeatable = 3 times to a maximum of 9 units for JOUR-173-175 (GR) |
| JOUR-174   | Magazine Writing and Editing Staff              | 1.00  | Units: 2.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course offers students practical experience in preparing feature, informative, and/or literary materials for the student magazine. They also plan and design the publication and conduct an annual literary-art contest. JOUR-174 is for writers. Repeatable = 3 times to a maximum of 9 units for JOUR-173-175 (GR) |
| JOUR-175   | Magazine Writing and Editing Staff              | 1.00  | Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course offers students practical experience in preparing feature, informative, and/or literary materials for the student magazine. They also plan and design the publication and conduct an annual literary-art contest. JOUR-175 is limited to editors. Repeatable = 3 times to a maximum of 9 units for JOUR-173-175 (GR) |
| JOUR-176   | Advertising Staff                               | 0.50  | Units: 1.00  
Advisory: BA-129 and/or ART/GA-109B  
Accepted For Credit: CSU  
This course offers practical experience in advertising production related to the student newspaper, magazine, and special college projects. Staff member’s sell, design, and paste-up ads, maintain regular accounts, and solicit new advertisers. Repeatable = 3 times to a maximum of 9 units for JOUR-176-178 (GR) |
| JOUR-177   | Advertising Staff                               | 1.00  | Units: 2.00  
Advisory: BA-129 and/or ART/GA-109B  
Accepted For Credit: CSU  
This course offers practical experience in advertising production related to the student newspaper, magazine, and special college projects. Staff member’s sell, design, and paste-up ads, maintain regular accounts, and solicit new advertisers. Repeatable = 3 times to a maximum of 9 units for JOUR-176-178 (GR) |
| JOUR-178   | Advertising Staff                               | 1.00  | Units: 3.00  
Advisory: BA-129 and/or ART/GA-109B  
Accepted For Credit: CSU  
This course offers practical experience in advertising production related to the student newspaper, magazine, and special college projects. Staff member’s sell, design, and paste-up ads, maintain regular accounts, and solicit new advertisers. Repeatable = 3 times to a maximum of 9 units for JOUR-176-178 (GR) |
### KINESIOLOGY
Division: Student Services

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN-240</td>
<td>Theory of Physical Education, Fitness, and Sport</td>
<td>3.00</td>
<td>This course is designed to introduce students to the fields of physical education, exercise science, and allied health. The history and trends of physical education and the human movement sciences will be discussed. Also included in the class will be the career options covering areas such as exercise physiology, biomechanics, motor learning, sports pedagogy, sports sociology, and related areas in athletic training, sports management, and allied health. (GC)</td>
</tr>
<tr>
<td>KIN-241</td>
<td>College Success for Athletes</td>
<td>2.00</td>
<td>This course is designed for new student-athletes to assist with the adjustment to college level academics and athletics. The focus is on application of learning strategies, academic planning, time management, transfer and eligibility guidelines, life skills and study skills. Additionally, this course will promote realistic expectations of college while understanding what is necessary to succeed as an intercollegiate athlete. (GC)</td>
</tr>
<tr>
<td>KIN-242</td>
<td>Sociology of Sport</td>
<td>3.00</td>
<td>This course will examine the history of sport and its political, social, and economic impact on public opinion. This will include an investigation into the phenomenon of sport including cultural stratification, race, gender, education, economics, politics, and the mass media. (GC)</td>
</tr>
<tr>
<td>KIN-243</td>
<td>Sports Marketing</td>
<td>3.00</td>
<td>This course examines the application of the principles of promotion and marketing to the sport and fitness industry. The areas covered will include high school/collegiate athletics, professional sports, and the fitness club industry. (GC)</td>
</tr>
<tr>
<td>KIN-244</td>
<td>Sports Management</td>
<td>3.00</td>
<td>This course provides an overview of professional sport management in North America. The political, historical, social, economic, and cultural impacts of sport management are explored. Topics will include team management, organizational administration, legal issues, public relations, and facility management. Students will become familiar with career opportunities in the sports management field. (GC)</td>
</tr>
<tr>
<td>KIN-251</td>
<td>Fitness for Life</td>
<td>3.00</td>
<td>This class is designed for students who wish to assess cardiovascular fitness, strength, flexibility, body fat and nutrition, and, stress level as a basis for designing and implementing a personal program for aerobic endurance, strength, and flexibility. (GC)</td>
</tr>
<tr>
<td>KIN-256</td>
<td>Sports Performance Testing</td>
<td>1.00</td>
<td>This course covers assessment methods commonly used to evaluate athletic ability. It covers anaerobic testing methods used to establish baseline, normative, and developmental data. Testing for specific sports such as basketball, football, soccer, and tennis is also covered. Repeatable = 1 time (GR)</td>
</tr>
<tr>
<td>KIN-257</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>3.00</td>
<td>This course is designed to introduce basic care and prevention of athletic injuries. Concepts will include injury recognition, evaluation, management, and rehabilitation. The practical experience will include adhesive taping and protective padding techniques, use of therapeutic modalities, and emergency first aid procedures as applied to athletic injuries. (GR)</td>
</tr>
<tr>
<td>KIN-258</td>
<td>Exercise Prescription</td>
<td>2.00</td>
<td>This course is designed to introduce principles of exercise prescription and strength and conditioning. Topics will include exercise physiology, exercise prescription for special and general populations, free weight and machine exercise techniques, nutrition and weight management, biomechanical concepts, and emergency and legal issues related to fitness and strength training. This course will also prepare students for the Personal Trainer Examination. (GC)</td>
</tr>
<tr>
<td>KIN-261</td>
<td>Mental Aspects of Sport</td>
<td>2.00</td>
<td>This course will develop the connection between the mental and physical aspects of competition and the ways to enhance performance. Stress reduction techniques, goal setting, imagery, and visualization will be covered as will training methods for both the body and mind. Repeatable = 2 times (GC)</td>
</tr>
</tbody>
</table>
KIN-381 Clinical Experiences in Sports Medicine I
3.00 hrs lab
Units: 1.00
Advisory: KIN-257
Accepted For Credit: CSU
This course provides students with practical exposure to the athletic training room setting. Students will participate in the treatment, evaluation, and rehabilitation of student athletes injured during practice or competition. Students will practice the application of athletic training procedures according to protocols established by the athletic trainer. Repeatable = 3 times (CR)

KIN-382 Clinical Experiences in Sports Medicine II
6.00 hrs lab
Units: 2.00
Advisory: KIN-257
Accepted For Credit: CSU
This course provides students with practical exposure to the athletic training room setting. Students will participate in the treatment, evaluation, and rehabilitation of student athletes injured during practice or competition. Students will practice the application of athletic training procedures according to protocols established by the athletic trainer. Repeatable = 3 times (CR)

LEARNING SKILLS PROGRAM

Division: Deaf Studies and Special Services

LSP-101 Learning Skills: Reading and Writing
3.00 hrs lecture
Units: 3.00
This course assists Learning Disabled students in developing skills for the successful completion of English and Reading courses. Focus is on creating a more thorough understanding of grammatical concepts and reading attack skills. Compensatory techniques will be taught with an emphasis on multi-modal learning. Not applicable to associate degree. Repeatable = 5 times (CR)

LSP-102 Learning Skills: Quantitative Reasoning
3.00 hrs lecture
Units: 3.00
This course assists Learning Disabled students in developing skills for the successful completion of math courses. Focus is on creating a more thorough understanding of math concepts through practice and multi-modal learning. Not applicable to associate degree. Repeatable = 5 times (CR)

LSP-111 Job Seeking Skills
18.00 hrs lecture
Units: 1.00
This course is for students who are Department of Rehabilitation (DoR) clients involved in the DoR/Ohlone College WorkAbility III (WAIII) partnership. The course provides students with the skills necessary to seek and obtain employment. The course will discuss resume and cover letter writing, interviewing skills, ADA laws and employment rights, goals assessment, workplace behavior, and job retention. Students will complete a portfolio which includes a resume, cover letter, letters of recommendation, and sample application. Not applicable to associate degree. (CR)

LSP-365 Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)

LIBRARY SCIENCE

Division: Learning Resources and Academic Technology

LS-101 Steps to Successful Research
1.00 hrs lecture
Units: 1.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Students choose a topic, design a research strategy, find and evaluate print and non-print sources relating to their topic, and create an annotated bibliography as a final project. Students need access to a computer and will need to make two library visits. This course introduces students to the research process. (CR)

LS-151 Internet for Research
0.50 hrs lecture
Units: 0.50
Cross-referenced Course: CS-151
Advisory: CAOT-153 or equivalent
Accepted For Credit: CSU
This course presents instruction in the use of the Internet as an alternate to traditional college-level learning resources. It will teach skills and strategies for finding and retrieving information on the Internet. This course is normally offered in a short-term format. (CR)

MATHEMATICS

Division: Humanities, Social Sciences, and Mathematics

MATH-101A Calculus with Analytic Geometry
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-188 with C or better or equivalent
Accepted For Credit: CSU & UC
This course includes review of functions and graphs, elements of analytic geometry, limits, continuity, differentiation of algebraic, trigonometric, logarithmic, exponential, and inverse trigonometric functions, applications of the derivative, and introduction to integration and some applications of the definite integral. (GR) (TCSU MATH 210)
MATH-101B Calculus with Analytic Geometry
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101A with a C or better or equivalent
Accepted For Credit: CSU & UC
This course includes techniques of integration, related applications, infinite series, an advanced treatment of conics, parametric equations, and polar coordinates. (GR) (TCSU MATH 220)

MATH-101C Calculus with Analytic Geometry
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101B with C or better or equivalent
Accepted For Credit: CSU & UC
This course includes vector analysis, functions of several variables, partial derivatives, multiple integration, integration of vector valued functions, and applications. (GR) (CAN MATH 22 OR MATH-101A + MATH-101B + MATH-101C = CAN MATH SEQ C)

MATH-103 Introduction to Linear Algebra
3.00 hrs lecture
Units: 3.00
Prerequisite: MATH-101B
Accepted For Credit: CSU & UC
This course includes an introduction to linear algebra including vector spaces, matrices, determinants, linear transformations, eigenvectors, techniques of solving systems of equations, and applications. (GR) (TCSU MATH 250)

MATH-104 Differential Equations
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101B
Accepted For Credit: CSU & UC
This course includes the study of the traditional topics in ordinary differential equations as well as series solutions, Laplace transforms, systems of equations, numerical methods, and selected applications. (GR) (TCSU MATH 240)

MATH-111 Introduction to Matlab
3.00 hrs lecture
Units: 3.00
Prerequisite: MATH-101A
Advisory: ENGL-101A
Accepted For Credit: CSU
This course provides students with an introduction to the software package Matlab. Topics include programming, two and three dimensional graphing, data import and export, curve fitting, recursion, and applications to calculus. (GR)

MATH-151 Algebra I
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-190 with grade of C or better or equivalent or placement evaluation
This course includes the study of operations on algebraic expressions, linear equations and inequalities, graphs of linear equations, systems of equations, exponents, polynomials, factoring, and rational expressions. (GR)

MATH-151A Algebra I (Part 1)
3.00 hrs lecture
Units: 2.50
Prerequisite: MATH-190 with grade of C or better or equivalent or placement evaluation
This course includes the study of operations using signed numbers, equations and inequalities, graphs, and an introduction to systems of equations. It emphasizes problem-solving skills. (GR)

MATH-151B Algebra I (Part 2)
3.00 hrs lecture
Units: 2.50
Prerequisite: MATH-151A with grade of C or better or equivalent or placement evaluation
This course includes exponents, polynomials, factoring, rational expressions, and applications. (GR)

MATH-152 Algebra II
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-151 or MATH-151A and MATH-151B with a grade of C or better or equivalent or placement evaluation
This course includes the study of systems of equations, relations, functions and their graphs, conic sections, exponential and logarithmic functions, arithmetic and geometric sequences and series, and the binomial theorem. (GR)

MATH-152A Algebra II (Part 1)
3.00 hrs lecture
Units: 2.50
Prerequisite: MATH-151 or MATH-151A and MATH-151B with a grade of C or better or equivalent or placement evaluation
This course includes the study of systems of linear equations, inequalities, radical expressions and equations, problem solving, and complex numbers. (GR)

MATH-152B Algebra II (Part 2)
3.00 hrs lecture
Units: 2.50
Prerequisite: MATH-152A with a grade of C or better or equivalent or placement evaluation
This course includes the study of relations, functions, and their graphs, quadratic functions and equations, exponential and logarithmic functions, conic sections, sequences, series, sigma notation, and the binomial expansion. (GR)

MATH-153 Intermediate Algebra
3.00 hrs lecture
Units: 3.00
Prerequisite: MATH-151 or MATH-151A and MATH-151B with a grade of C or better or equivalent or placement evaluation
This course includes the study of relations and functions and their graphs, quadratic equations, parabolas, exponential and logarithmic functions, and sigma notation. (GR)

MATH-155 Math for the Associate Degree
3.00 hrs lecture
Units: 3.00
Prerequisite: MATH-151 or placement
This course meets the minimum general education mathematics requirement. It uses the concepts of beginning algebra (Algebra I), problem solving skills, and analytical thinking to investigate areas such as consumer concerns, recreational math, probability, math in sports, statistics, geometry, trigonometry, and math in the work place. (GR)
MATH-156 Math for Liberal Arts
3.00 hrs lecture
Units: 3.00
Prerequisite: MATH-152 or MATH-153 with grade of C or better or equivalent or placement evaluation
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is designed for liberal arts and education students and uses the concepts learned in Intermediate Algebra. It is a survey course of college mathematics with emphasis placed on the nature of mathematics, problem solving, and thinking patterns. Topics covered will be selected from the areas of sets and logic, methods of proof, elements of probability and statistics, geometry, systems of numeration, math of finance, basic trigonometry and calculus, math history, and linear programming. (GC) (CAN MATH 2)

MATH-159 Elements of Statistics and Probability
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-152 or MATH-153 with grade of C or better or equivalent or placement evaluation
Advisory: Completion of ENGL-163 or equivalent
Accepted For Credit: CSU & UC
This course examines the elements of probability, binomial and normal distributions, measures of location, measures of variation, hypothesis testing, point and interval estimation, small sample tests, linear correlation, analysis of variance, and use of technology for statistical applications. (GR) (CAN STAT 2)

MATH-163 Discrete Mathematics for Computers
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-113
Prerequisite: MATH-188 or equivalent
Advisory: MATH-101A and MATH-101B
Accepted For Credit: CSU & UC
This course is designed for majors in mathematics and computer science. It is the first course for students in discrete mathematics. A main goal of this course is to teach students to think abstractly. This requires that students learn to use logically valid different methods of proof including mathematical induction. Topics include logic, proofs, sets, relations, recurrence relations, graphs, trees, and combinatorics. Applications include Boolean Algebra, logic circuits, O-Notation, and Automata. (GC)

MATH-166 Finite Mathematics
4.00 hrs lecture
Units: 4.00
Prerequisite: MATH-152 or equivalent with grade of C or better
Accepted For Credit: CSU & UC
This course includes the core concepts of set theory, systems of linear equations and inequalities, linear programming, matrices, math of finance with applications to business and social sciences, and an introduction to probability and decision making. (GR) (CAN MATH 12)

MATH-167 Calculus for Business and Social Science
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-152 or equivalent with grade of C or better
Accepted For Credit: CSU & UC
This course includes the concepts of relations, algebraic, exponential and logarithmic functions, differential and integral calculus, functions of several variables and partial derivatives, with applications to business, finance, and the social sciences. (GR) (CAN MATH 34)

MATH-181 Trigonometry
3.00 hrs lecture
Units: 3.00
Prerequisite: MATH-152 with grade of C or better or equivalent or placement evaluation
Accepted For Credit: CSU
This course focuses on understanding the definitions and principles of trigonometry and their applications to problem-solving. (GR) (CAN MATH 8)

MATH-188 Pre-Calculus
5.00 hrs lecture
Units: 5.00
Prerequisite: MATH-181 with C or better or equivalent
Accepted For Credit: CSU & UC
This course is a review of the concepts and skills necessary for Calculus. The course includes the theory and graphing of elementary, exponential, and logarithmic functions; a review of trigonometry; systems of linear and quadratic equations; and an introduction to sequences and series. (GR) (CAN MATH 16)

MATH-190 Basic Mathematics
3.00 hrs lecture
Units: 3.00
This course includes a study of the arithmetic of whole numbers, fractions, and decimals; applications of arithmetic-ratios, percents, word problems, and U.S. and metric systems of measurement; statistical graphs, measurement of central tendency and word problems employing those concepts; and an introduction to algebra and geometry. Not applicable to associate degree. (GR)

MATH-190A Basic Mathematics (Self-Paced)
1.00 hrs lecture
Units: 1.00
This self-paced course covers introductory concepts from algebra and geometry. Completion of MATH-190A, MATH-190B, and MATH-190C is equivalent to MATH-190. Not applicable to associate degree. (GR)

MATH-190B Basic Mathematics (Self-Paced)
1.00 hrs lecture
Units: 1.00
Advisory: Completion of MATH-190A
This self-paced course covers ratios, proportions, percents, the U.S. Customary and metric systems of measurement, statistical graphs, and measurements of central tendency. Completion of MATH-190A, MATH-190B, and MATH-190C is equivalent to MATH-190. Not applicable to associate degree. (GR)

MATH-190C Basic Mathematics (Self-Paced)
1.00 hrs lecture
Units: 1.00
Advisory: Completion of MATH-190A and MATH-190B
This self-paced course covers introductory concepts from algebra and geometry. Completion of MATH-190A, MATH-190B, and MATH-190C is equivalent to MATH-190. Completion of MATH-190C can be used as the prerequisite of MATH-151 or MATH-151A/MATH-151B (Algebra I). Not applicable to associate degree. (GR)

MATH-196 Geometry
3.00 hrs lecture
Units: 3.00
Prerequisite: MATH-151 or equivalent
Students will study geometric concepts, deductive proofs, and logical arguments, and develop skills to solve problems and construct proofs. The topics include lines, angles, circles, triangles, parallelism, similarity, congruency, areas, volumes, and logic. (GR)
MATH-199  Success in Math  
0.50 hrs lecture  
Units: 0.50  
Corequisite: Enrollment in any course with math content  
Advisory: Concurrent enrollment in MATH-190, 151, 151A, 151B, 152, 152A, 152B, or 153  
This course is designed to assist students in learning mathematics through the development of successful study skills and exam taking methods. Students will also be provided with skills necessary to overcome any math anxieties they may have. This course addresses learning styles, reading math textbooks, completing homework assignments, and taking notes. Repeatable = 3 times (NG)

MATH-365  Supervised Tutoring  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

**MULTIMEDIA**
Division: Fine Arts, Business, and Broadcasting

MM-102A  Multimedia I  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: CS-101 or equivalent  
Advisory: CS-102 or CS-104A or CS/ART/BA/GA-160A  
Accepted For Credit: CSU  
This course is designed to introduce students to computer-based multimedia. Students will plan and develop their own applications which will use custom sounds, graphics, and user interaction. Instructional design principles will be used in the planning process. Repeatable = 1 time (GC)

MM-102B  Multimedia II  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: MM-102A or equivalent  
Accepted For Credit: CSU  
This course covers the skills necessary to use digital video, sound, animations, graphics, and programming to develop educational courseware. An emphasis will be put on group project development in cooperation with a content expert and an instructional designer. Students’ individual strengths will be used in groups to create educational and training models. Repeatable = 2 times (GC)

MM-103A  Introduction to Flash: Animation  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Learn the essential tools in Flash for creating graphics, importing artwork and sound. Learn different techniques to produce animations for the Web and CD-ROM. This course is typically taught in two days. Repeatable = 1 time (GC)

MM-103B  Intermediate Flash: Interactivity  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Prerequisite: MM-103A  
Learn different techniques for creating interactive projects, optimizing their performance, and publishing for the Web and CD-ROM. Create interactive controls by dragging and dropping actions to projects. Learn basic ActionScripting. This course is usually taught in two days. Repeatable = 1 time (GC)

MM-104  Advanced Interactivity in Flash  
2.00 hrs lecture, 3.00 hrs lab  
Units: 3.00  
Prerequisite: MM-103A or 103B or equivalent  
Accepted For Credit: CSU  
First, learn how to create interactive Flash Sites for the Web using multiple timelines, nested movies, variables, text fields, and preloader. Then learn ActionScript, the powerful programming language in Flash, to add complex interaction to projects. No prior programming experience is required; however, familiarity with Flash is essential. Repeatable = 2 times (GC)

MM-105  Web Site Design  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Advisory: CS-156  
Accepted For Credit: CSU  
This course focuses on principles of Web design and navigation such as interface design, good and bad design, color on the World Wide Web, preparing graphics, sound, video, typography, and testing the site. Repeatable = 2 times (GC)

MM-107  Introduction to Dreamweaver  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
This is an introductory course in creating Web pages with Macromedia Dreamweaver. Repeatable = 1 time (GC)

MM-110  Digital Video  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Advisory: MM-102A  
Accepted For Credit: CSU  
This course will focus on how to manipulate digital video. Topics will include how to compress, edit, and add special effects to video. We will explore outputting video for various media including the Web and analog formats. Repeatable = 1 time (GC)

MM-111  Introduction to After Effects  
0.25 hrs lecture, 0.75 hrs lab  
Units: 0.50  
Students will learn the essential tools for creating motion graphics and visual effects and will effectively produce 2D or 3D visual effects for digital video, multimedia, and the Web. This course is typically taught in two days. Repeatable = 1 time (GC)

MM-114  Textures for 3D  
2.00 hrs lecture, 3.00 hrs lab  
Units: 3.00  
Advisory: MM-116 or MM-102A  
Students will learn different techniques to enhance 3D objects and environments using 3D modeling and 2D paint software. The topics covered are painting textures, manipulating digital images, texture mapping, lighting techniques, camera shots, applying principles of art and design to 3D imagery, and rendering images for multimedia and print. Repeatable = 1 time (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Units</th>
<th>Advisory</th>
<th>Cross-Referenced Course</th>
<th>Acceptance</th>
<th>Prerequisites/Notes</th>
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</thead>
<tbody>
<tr>
<td>MM-115</td>
<td>3D Animation</td>
<td>2.00</td>
<td>3.00</td>
<td>3.00</td>
<td>CS-101 or equivalent</td>
<td></td>
<td>CSU</td>
<td>This course will focus on the operation of 3D Computer Animation Software. Students will create their own 3D animations and present their work. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>MM-116</td>
<td>3D Modeling</td>
<td>2.00</td>
<td>3.00</td>
<td>3.00</td>
<td>MM-102A</td>
<td></td>
<td>CSU</td>
<td>Students will learn different techniques to model objects and environments using a 3D modeling software. The topics covered are designing characters, modeling, texture mapping, lighting techniques, camera shots, 3D scene layout, and rendering images for different multimedia applications. Repeatable = 1 time (GC)</td>
</tr>
<tr>
<td>MM-117</td>
<td>Advanced 3D Modeling and Animation</td>
<td>2.00</td>
<td>3.00</td>
<td>3.00</td>
<td>MM-115 or MM-116</td>
<td></td>
<td>CSU</td>
<td>Students will learn advanced techniques in modeling and animation using 3D modeling software. The topics include advanced modeling tools, texture mapping, lighting effects, particle systems, camera effects, and advanced animation using inverse kinematics. Repeatable = 1 time (GC)</td>
</tr>
<tr>
<td>MM-118</td>
<td>Introduction to Video Game Design</td>
<td>1.00</td>
<td>3.00</td>
<td>2.00</td>
<td>ENGL-101A</td>
<td></td>
<td>CSU</td>
<td>This class focuses on the process of planning, developing, and creating content for video games. Students will gain an understanding of the video game industry, and they will learn how to design characters, levels, and design documents. (GC)</td>
</tr>
<tr>
<td>MM-119</td>
<td>Video Game Development</td>
<td>2.00</td>
<td>6.00</td>
<td>3.00</td>
<td>MM-116 and MM-118</td>
<td></td>
<td>CSU</td>
<td>This class focuses on producing video games using 3D software and game engines. Students work in a team environment and follow production practices employed in the video game industry. Repeatable = 1 time (GC)</td>
</tr>
<tr>
<td>MM-120</td>
<td>Designing an On-Line Course</td>
<td>3.00</td>
<td></td>
<td>3.00</td>
<td>Access to Internet Explorer</td>
<td></td>
<td>CSU</td>
<td>This course will focus on how to develop courses for the World Wide Web. The course will survey distance learning models and presentation techniques and will develop evaluation criteria. As a culmination, students will develop and test a module for the World Wide Web. Repeatable = 2 times (GC)</td>
</tr>
<tr>
<td>MM-160</td>
<td>Multimedia Portfolio Development</td>
<td>2.00</td>
<td>3.00</td>
<td>3.00</td>
<td>MM-105 or equivalent</td>
<td></td>
<td>CSU</td>
<td>This course will focus on the development of student portfolios of their work for presentation on CD-ROM and the World Wide Web. Students will review the “cultures” of the multimedia industry, review job roles and responsibilities, go on field trips, and critique student work. (GC)</td>
</tr>
<tr>
<td>MM-162</td>
<td>XHTML</td>
<td>2.00</td>
<td>6.00</td>
<td>4.00</td>
<td>CS-101 or CS-101L</td>
<td></td>
<td>CSU</td>
<td>Students will use XHTML to create multimedia Web pages using hypertext links, tables, frames, forms, cascading style sheets (CSS), JavaScript, and JavaScript objects and events. Other topics include Dynamic Hypertext Markup Language (DHTML) techniques and working with eXtensible Markup Language (XML) and eXtensible Stylesheet Language (XSL). Repeatable = 1 time (GC)</td>
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<tr>
<td>MM-195A1</td>
<td>Work Experience Education – Vocational</td>
<td>4.20</td>
<td></td>
<td>1.00</td>
<td>Refer to Work Experience Education Department Notes</td>
<td></td>
<td>CSU</td>
<td>Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)</td>
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<tr>
<td>MM-195A2</td>
<td>Work Experience Education – Vocational</td>
<td>8.30</td>
<td></td>
<td>2.00</td>
<td>Refer to Work Experience Education Department Notes</td>
<td></td>
<td>CSU</td>
<td>Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)</td>
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<tr>
<td>MM-195A3</td>
<td>Work Experience Education – Vocational</td>
<td>12.50</td>
<td></td>
<td>3.00</td>
<td>Refer to Work Experience Education Department Notes</td>
<td></td>
<td>CSU</td>
<td>Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)</td>
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<tr>
<td>MM-195A4</td>
<td>Work Experience Education – Vocational</td>
<td>16.70</td>
<td></td>
<td>4.00</td>
<td>Refer to Work Experience Education Department Notes</td>
<td></td>
<td>CSU</td>
<td>Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)</td>
</tr>
</tbody>
</table>
MUSIC

Division: Fine Arts, Business, and Broadcasting

MUS-100 Survey of the Arts
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ART-100, ID-100, TD-100
Corequisite: MUS-100L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course examines the study of western classical music as cultural expression. It is designed for students looking for a general survey course in music as well as those who simply want to increase their musical understanding. The course considers listening techniques and fundamental concepts including form, style, media, and textures. The subject matter ranges from rondeau to reggae to rock. (GR)

MUS-100L Survey of the Arts Performance Attendance Lab
6.00 hrs lab
Units: 0.00
Cross-referenced Course: ART-100L, ID-100L, TD-100L
Corequisite: MUS-100
This is a concert, performance, or gallery attendance lab component for Survey of the Arts course requiring attendance at selected events offered by the Smith Center for the Fine and Performing Arts. (NG)

MUS-101 Introduction to Music-Western Classical Music
3.00 hrs lecture
Units: 3.00
Corequisite: MUS-101L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course considers the study of western classical music as cultural expression. It is designed for students looking for a general course in music as well as those who may wish to increase their musical understanding. The course considers listening techniques and fundamental concepts including form, style, media, and textures. The subject matter ranges from rondeau to reggae to rock. (GC)

MUS-101L Introduction to Western Classical Music Performance Attendance Lab
4.00 hrs lab
Units: 0.00
Corequisite: MUS-101
This is a concert performance attendance lab component for Survey of the Arts course requiring attendance at selected events offered by the Smith Center for the Fine and Performing Arts. (NG)

MUS-102 Music Appreciation
3.00 hrs lecture, 1.00 hrs lab
Units: 3.00
Corequisite: MUS-102L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course satisfies the Fine Arts and Cultural Diversity GE requirements for an associate degree. It is an introductory course in music for students without previous formal training in music, listening, or performance. It is designed to provide understanding and enjoyment through informed listening, analysis, and discernment of musical element, forms, and repertoire. The material selected is from all styles, periods, and cultures. (GC)

MUS-102L Music Appreciation Performance Attendance Lab
3.00 hrs lab
Units: 0.00
Corequisite: MUS-102
This is a concert, performance, or gallery attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Smith Center for the Fine and Performing Arts. (NG)

MUS-103 Fundamentals of Music
3.00 hrs lecture
Units: 3.00
Corequisite: MUS-103L
Accepted For Credit: CSU & UC
This is a basic course for students investigating the study of musical notation, keys, scales, and chords, along with other aspects of basic musicianship. This course is useful in working with children and youth. (GC)

MUS-103L Fundamentals of Music Performance Attendance Lab
4.00 hrs lab
Units: 0.00
Corequisite: MUS-103
This is a concert performance attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Smith Center for the Fine and Performing Arts. (NG)

MUS-104 Music of World Cultures
3.00 hrs lecture
Units: 3.00
Corequisite: MUS-104L
Accepted For Credit: CSU & UC
A survey of traditional and contemporary music from around the world including, but not limited to: Africa, India, Indonesia, South/Central America, Caribbean, Europe, China, Japan, and the United States. This course will deal with the traditional instruments and ensembles, as well as vocal techniques, and performance practices particular to each region. (GR)

MUS-104L Music of World Cultures Performance Attendance Lab
4.00 hrs lab
Units: 0.00
Corequisite: MUS-104
This is a concert performance attendance lab component. Selected events offered at the Smith Center for the Fine and Performing Arts may/will satisfy this requirement. (NG)

MUS-108 Song Writing
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course will expose students to the compositional techniques inherent in the process of commercial song writing. Students will learn to write songs, listen to their projects on the computer, edit the songs using standard music sequencing and notation software, compare the outcomes with standard professional compositional criteria, and record the final edited projects. Repeatable = 1 time (GC)

MUS-110A Music Theory and Harmony
3.00 hrs lecture
Units: 3.00
Corequisite: MUS-111A, MUS-110L
Accepted For Credit: CSU & UC
This course is a study of notation in major and minor scales, tonality, chord construction, rhythm, and non-harmonic tones. This course serves as an introduction to more advanced study of music theory and harmony. (GR) (CAN MUS 2 or MUS-110A + MUS-110B = CAN MUS SEQ A)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours Lecture</th>
<th>Hours Lab</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Corequisite Expanded</th>
<th>Corequisite Expanded Expanded</th>
<th>Units</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MUS-110B</td>
<td>Harmony</td>
<td>3.00</td>
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<td>Prerequisite: MUS-110A or equivalent</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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<tr>
<td>MUS-110C</td>
<td>Advanced Harmony</td>
<td>3.00</td>
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<td>Prerequisite: MUS-110B</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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<td>MUS-110D</td>
<td>Advanced Harmony</td>
<td>3.00</td>
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<td>Prerequisite: MUS-110C</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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<tr>
<td>MUS-110L</td>
<td>Music Theory and Harmony</td>
<td>4.00</td>
<td></td>
<td>Corequisite: MUS-110A, MUS-110B, MUS-110C, or MUS-110D</td>
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<td></td>
<td>Performance Attendance Lab</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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<td>MUS-111A</td>
<td>Musicianship</td>
<td>1.00</td>
<td>2.00</td>
<td>Prerequisite: MUS-110A</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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<tr>
<td>MUS-111B</td>
<td>Musicianship</td>
<td>1.00</td>
<td>2.00</td>
<td>Prerequisite: MUS-111A or equivalent</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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<tr>
<td>MUS-111C</td>
<td>Advanced Musicianship</td>
<td>1.00</td>
<td>2.00</td>
<td>Prerequisite: MUS-111B or equivalent</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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**MUS-111D Advanced Musicianship**

3.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Prerequisite: MUS-111C or equivalent
Corequisite: MUS-110D
Accepted For Credit: CSU & UC
This course covers sight singing and reading of materials employed in MUS-110D. (GR)

**MUS-112A Pro Tools 101**

2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course is an introduction to electronic music through lectures and studio experiences with MIDI synthesizers, computer-based sequencing, and tape recording. (GR)

**MUS-112B Pro Tools and MIDI**

2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Prerequisite: MUS-112A or equivalent
Accepted For Credit: CSU
This is an intermediate electronic music course offering lectures and studio experiences in various electronic music media. Emphasis is on composition of electronic music. Repeatable = 1 time (GR)

**MUS-113 Studio Recording**

2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Cross-referenced Course: BRDC-132
Accepted For Credit: CSU
This course is an introduction to the recording studio. The course follows the path of audio signals through the microphone, mixer, signal processors, tape recorder, and monitoring stations. The course explores various types of microphones, the functions of mixing boards, the characteristics of signal processors, and recording techniques. (GC)

**MUS-114 Create a CD**

2.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course covers post-recording CD creation and offers students a chance to learn and explore audio file editing and mastering, CD burning, MP3 ripping, and complete jewel box artwork. Audio source material will include CD tracks, MP3’s, and various analog tape or phono recordings. Artwork will be created using Adobe Photoshop and Discus. Repeatable = 3 times (GC)

**MUS-116 Sound Reinforcement and Live Recording**

2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: MUS-112A
The lecture component covers basic techniques for live concert sound reinforcement, including basic sound system theory/applications and study of individual sound system component operation (microphones, mixers, effects, power amplifiers, speaker systems). Lab presents field opportunities for students to apply knowledge in concert situations. Repeatable = 1 time (GR)

**MUS-120A History of Trends in Music Literature**

3.00 hrs lecture
Units: 3.00
Corequisite: MUS-120L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is a historically oriented study of music in the western world from earliest beginning, through the medieval, Renaissance (Monteverdi), and Baroque (Bach) periods. Music majors required to take course for letter grade only. (GC)
MUS-120B  History of Trends in Music Literature
3.00 hrs lecture, 1.00 hrs lab
Units: 3.00
Corequisite: MUS-120L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is a historically oriented study of music in the western world from the classical period (Mozart-Haydn) through music of the 19th and 20th centuries. Romantic concepts as well as recent compositional techniques of the 20th century are examined. Music majors required to take course for letter grade only. (GC)

MUS-120L  History of Trends in Music Literature
Performance Attendance Lab
4.00 hrs lab
Units: 0.00
Corequisite: MUS-120A or MUS-120B
This is a concert performance attendance lab component at selected events offered by the Smith Center for Fine & Performing Arts. Repeatable = 3 times (NG)

MUS-121  The History of Jazz
3.00 hrs lecture, 1.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course involves the study of jazz, its historical background, and its development in the world. The course is open to all students. (GC)

MUS-122  A History of Early Rock and Roll:
Music and Culture of the 1950’s
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-141, IS-142
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950’s – Bill Haley, Fats Domino, Elvis Presley, Chuck Berry and Little Richard – will be studied along side the major historical events and trends that shaped this decade. The course is designed to gradually develop a student’s appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and the American Culture. The course will chart how rock & roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)

MUS-123  History of Rock and Roll:
Music and Culture of the 1960’s
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-142, IS-143
Accepted For Credit: CSU & UC
This course charts the evolution of Rock & Roll music from the late 1950s through the 1960s focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students’ appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society. (GC)

MUS-125  Rock Music Since 1970
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-143
Accepted For Credit: CSU & UC
This course examines the development of popular music and its relationship to general culture and society since 1970. It will include identification and analysis of art rock, disco, new wave, reggae, rap, hip-hop, worldbeat, and other musical genres through online reading, lectures, and in-class demonstrations. (GR)

MUS-160A  Beginning Class Piano
1.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU & UC
This course consists of class piano lessons for beginners and students who wish to develop elementary skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. The course fulfills 25% of the performance requirements for the Piano Studies Certificate. (GC)

MUS-160B  Class Piano
1.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU & UC
This course consists of class piano lessons for beginners and students who wish to develop elementary skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. (GC)

MUS-160C  Class Piano
1.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU & UC
This course consists of intermediate level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. (GC)

MUS-160D  Class Piano
1.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU & UC
This course consists of intermediate level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. (GR)

MUS-160E  Piano Repertoire
1.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU & UC
This course consists of intermediate to advanced level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Units</th>
<th>Prerequisite</th>
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<tr>
<td>MUS-160F</td>
<td>Piano Repertoire</td>
<td>1.00</td>
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<td>Corequisite: MUS-160L</td>
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<td>MUS-161A</td>
<td>Class Guitar</td>
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<td>MUS-161B</td>
<td>Class Guitar</td>
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<td>MUS-161C</td>
<td>Class Guitar</td>
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<td>MUS-161D</td>
<td>Class Guitar</td>
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<td>Prerequisite: Demonstrate ability to read music for MUS-161D</td>
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<tr>
<td>MUS-161E</td>
<td>Class Guitar</td>
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<td>2.00</td>
<td>1.00</td>
<td>Prerequisite: Demonstrate ability to read music for MUS-161E</td>
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<td>MUS-162A</td>
<td>Class Voice – Beginning</td>
<td>1.00</td>
<td>2.00</td>
<td>1.00</td>
<td>Corequisite: MUS-162L</td>
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<tr>
<td>MUS-162B</td>
<td>Class Voice – Beginning</td>
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<td>2.00</td>
<td>1.00</td>
<td>Prerequisite: MUS-162B</td>
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<td>MUS-162C</td>
<td>Class Voice – Intermediate</td>
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<td>3.00</td>
<td>2.00</td>
<td>Corequisite: MUS-162C</td>
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<tr>
<td>MUS-162D</td>
<td>Class Voice – Intermediate</td>
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<td>3.00</td>
<td>2.00</td>
<td>Prerequisite: MUS-162D</td>
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<tr>
<td>MUS-162E</td>
<td>Vocal Repertoire</td>
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<td>3.00</td>
<td>2.00</td>
<td>Corequisite: MUS-162D</td>
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Note: Prerequisites and corequisites are as follows:
- MUS-160L: Any one of MUS-160A-F
- MUS-162L: MUS-162A, MUS-162B, or MUS-162C
- MUS-166L: MUS-166A, MUS-166B, or MUS-166C

All courses require students to provide their own guitar.
MUS-164B  Brass Instruments (Horn, Trumpet, Trombone, Tuba)  
1.00 hrs lecture, 2.00 hrs lab  
Units: 1.00  
Advisory: MUS-164B or equivalent  
Accepted For Credit: CSU & UC  
This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-164D  Brass Instruments (Horn, Trumpet, Trombone, Tuba)  
1.00 hrs lecture, 2.00 hrs lab  
Units: 1.00  
Advisory: MUS-164C or equivalent  
Accepted For Credit: CSU & UC  
This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-165A  Percussion Instruments  
1.00 hrs lecture, 2.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course involves class instruction on all orchestral-percussion instruments. MUS-165A is open to all students. No experience is necessary. (GC)

MUS-165B  Percussion Instruments  
1.00 hrs lecture, 2.00 hrs lab  
Units: 1.00  
Advisory: MUS-165B or equivalent  
Accepted For Credit: CSU & UC  
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-165C  Percussion Instruments  
1.00 hrs lecture, 2.00 hrs lab  
Units: 1.00  
Advisory: MUS-165C or equivalent  
Accepted For Credit: CSU & UC  
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-165D  Percussion Instruments  
1.00 hrs lecture, 2.00 hrs lab  
Units: 1.00  
Advisory: MUS-165D or equivalent  
Accepted For Credit: CSU & UC  
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-166A  Applied Music  
1.00 hrs lecture, 1.00 hrs lab  
Units: 1.00  
Corequisite: MUS-166L, MUS-162C  
Accepted For Credit: CSU & UC  
This course involves individual instruction in voice, piano, guitar, or other traditional orchestral instruments. It is expected that students will have, as a minimum, one hour of lecture/recital instruction per week; one hour of supervised practice per week; and one individual lesson with instructor per week. A minimum of twelve lessons per semester must be verified. (GC)

MUS-166B  Applied Music  
1.00 hrs lecture, 1.00 hrs lab  
Units: 1.00  
Corequisite: MUS-166L  
Accepted For Credit: CSU & UC  
This course involves individual instruction in voice, piano, guitar, or other traditional orchestral instruments. It is expected that students will have, as a minimum, one hour of lecture/recital instruction per week; one hour of supervised practice per week; and one individual lesson with instructor per week. A minimum of twelve lessons per semester must be verified. (GC)
MUS-166C Applied Music
1.00 hrs lecture, 1.00 hrs lab
Units: 1.00
Corequisite: MUS-166L
Accepted For Credit: CSU & UC
This course involves individual instruction in voice, piano, guitar, or other traditional orchestral instruments. It is expected that students will have, as a minimum, one hour of lecture/recital instruction per week; one hour of supervised practice per week; and one individual lesson with instructor per week. A minimum of twelve lessons per semester must be verified. (GC)

MUS-166D Applied Music
1.00 hrs lecture, 1.00 hrs lab
Units: 1.00
Corequisite: MUS-166L
Accepted For Credit: CSU & UC
This course involves individual instruction in voice, piano, guitar, or other traditional orchestral instruments. It is expected that students will have, as a minimum, one hour of lecture/recital instruction per week; one hour of supervised practice per week; and one individual lesson with instructor per week. A minimum of twelve lessons per semester must be verified. (GC)

MUS-166L Applied Music Performance Attendance Lab
4.00 hrs lab
Units: 0.00
Corequisite: MUS-166A, MUS-166B, MUS-166C, or MUS-166D
This is a concert performance attendance lab component at selected events offered by the Smith Center for the Fine & Performing Art. Repeatable = 3 times (NG)

MUS-169A Jazz Guitar
1.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Prerequisite: Some playing ability required
Accepted For Credit: CSU & UC
Various aspects of jazz guitar with special emphasis on improvisation and harmony are presented in group instruction. Repeatable = 3 times (GR)

MUS-169B Blues/Rock Guitar
1.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Prerequisite: Previous playing experience
Accepted For Credit: CSU & UC
Blues/rock improvisation and accompaniment. Lecture, demonstration, and in-class playing are presented in a group instruction class. Repeatable = 3 times (GR)

MUS-169C Blues/Rock Guitar II
1.00 hrs lecture, 2.00 hrs lab
Units: 1.00
Advisory: MUS-169B
Accepted For Credit: CSU & UC
Advanced blues/rock improvisation and accompaniment. Includes lecture, demonstration, and in-class playing presented in a group class. Repeatable = 3 times (GR)

MUS-192 Music for Minors: Music Docent Training
2.50 hrs lecture, 1.50 hrs lab
Units: 3.00
Advisory: Ability to keep beat and sing on pitch
This course provides training to teach the elements of music through active participation in a comprehensive music program for elementary school classrooms. It is required as the basic training for Music for Minors which provides a minimum of 1/2 hour weekly instruction in elementary classrooms for at least one school year. Repeatable = 1 time (GR)

MUS-350 Community Band
3.00 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU & UC
Study and performance of band and chamber music repertoire. Repeatable = 3 times (GR)

MUS-351 Performance Ensembles
3.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU & UC
This course is the study and performance of vocal and/or instrumental ensemble literature, both jazz and classical. Performers participate in small ensembles of varied instrumentation throughout each semester. Attendance at scheduled public performances is required. This course is required of all instrumental music majors each semester of attendance. Repeatable = 3 times (GC)

MUS-352 Jazz/Rock Combos
3.00 hrs lab
Units: 1.00
Prerequisite: Ability to read music
Advisory: MUS-103, MUS-110 or equivalent
Accepted For Credit: CSU & UC
This course includes sight-reading, preparation, performance, and recording of various styles of music composed and arranged for standard Jazz, Rock, Jump, Blues, and Latin ensembles. Emphasis on groove playing and feel. Additional emphasis on improvising within the ensemble structure is a goal for each student. Student composition and arranging is encouraged. Repeatable = 3 times (GC)

MUS-354A String Techniques – Ohlone Chamber Orchestra
3.00 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU & UC
This course involves class instruction on all string instruments. Repeatable = 3 times (GC)

MUS-355 College Chorus
3.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This choir is a predominately campus (full-time student) organization for the beginning choral singer. It is a non-audition choir which performs with the Chorale and Symphonic Choir as well as its own performance opportunities. Repeatable = 3 times (GC)

MUS-356 Chamber Singers
3.00 hrs lab
Units: 1.00
Prerequisite: Audition
Advisory: Ability to read music
Accepted For Credit: CSU & UC
This course is an audition-only choir ensemble of trained community/campus singers who specialize in choral music from all eras of Western European music history. The choir is limited in size, but enrollment is open to all qualified singers. Attendance at all rehearsals and concerts is required. Repeatable = 3 times (GC)

MUS-358 Community Chorale
3.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course is a large, "oratorio" style choir designed for the campus/community singer. It is non-audition choir for those interested in singing with a large ensemble. Repeatable = 3 times (GC)
MUS-365  Supervised Tutoring  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)  

MUS-367  Women’s Chorus  
3.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This choir is open to all female members of the campus and the community. The course will concentrate on music designed for this gender-specific ensemble. Students will be required to attend all rehearsals and concerts programmed for this group. Little or no prior choral experience is needed. Repeatable = 3 times (GC)  

MUS-369  Jazz, Rock, Popular, Blues Piano  
1.00 hrs lecture; 2.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course is a basic techniques and forms study of the applied and improvisation techniques of Jazz, Rock, Pop, Fusion, and Blues piano. Repeatable = 3 times (GR)  

MUS-370  Symphonic Band  
3.00 hrs lab  
Units: 0.50  
Prerequisite: Ability to read music  
Accepted For Credit: CSU & UC  
This course includes the study and performance of large scale symphonic band literature. Emphasis will be placed on major composer repertoire, scored for an ensemble with multiple part duplication. Attendance at scheduled rehearsals and performances is required. Repeatable = 3 times (GC)  

MUS-371  Mixed Wind Ensemble  
3.00 hrs lab  
Units: 0.50  
Prerequisite: Ability to read music  
Accepted For Credit: CSU & UC  
This course includes the study and performance of “one player per part” wind literature. Emphasis will be placed on solo preparation and execution. Attendance at scheduled rehearsals and performances is required. Repeatable = 3 times (GC)  

MUS-374  Community Orchestra  
3.00 hrs lab  
Units: 0.50  
Prerequisite: Demonstrate ability to read music  
Accepted For Credit: CSU & UC  
This course features the study and performance of both chamber and full symphonic orchestra repertoire. The literature represents all stylistic periods. Repeatable = 3 times (GC)  

MUS-380  Musical Theatre Workshop I (Principals)  
3.00 hrs lab  
Units: 1.00  
Prerequisite: Audition and casting role in current musical  
Accepted For Credit: CSU & UC  
This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance. Specific instruction will be given in movement and music for the leading members of the cast. Repeatable = 3 times (GC)  

MUS-381  Musical Theatre Workshop II (Chorus)  
3.00 hrs lab  
Units: 1.00  
Prerequisite: Audition and casting role in current musical  
Accepted For Credit: CSU & UC  
This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance. Specific instruction will be given in movement and music for members of the chorus. Repeatable = 3 times (GC)  

MUS-382  Musical Theatre Workshop III (Instrumental)  
3.00 hrs lab  
Units: 0.50  
Prerequisite: Demonstrate ability to read music  
Accepted For Credit: CSU & UC  
This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance from the perspective of the “pianist.” Repeatable = 3 times (GC)  

MUS-394  Madrigals  
3.00 hrs lab  
Units: 1.00  
Prerequisite: Audition only  
Advisory: Ability to sight read music  
Accepted For Credit: CSU & UC  
This course is an audition-only choir ensemble of trained community/campus singers who specialize in choral music from the “show choir/vocal jazz choir” repertoire. Repeatable = 3 times (GC)  

NURSING  
Division: Health Sciences and Academic Affairs  

NUR-115M  LVN Bridge to Registered Nursing  
1.50 hrs lecture; 4.50 hrs lab  
Units: 3.00  
Prerequisite: Admission to the LVN-RN Mobility Option  
This course is required of all students admitted to the LVN-RN Mobility Option. Content includes the nursing process as it applies to adaptation theory of nursing practice, LVN role transition to registering nursing, assessment skills, IV therapy, math for medications, basic procedures, and care planning. This course is taught in a self-paced modular format. Repeatable = 1 time (GR)  

NUR-115P  Maternal-Child Review  
5.00 hrs lecture  
Units: 2.50  
Advisory: Eligible for ENGL-101A  
NUR-115P is a review of the care of the child-bearing, child rearing family. The nursing roles of provider and manager of care and member of the profession are explored in meeting the needs of patients in labor and delivery, post-partum, the newborn nursery, and pediatrics. The content will include pathophysiology, nursing assessment, nursing implications of diagnostic tests, and related pharmacology. Students will assess patients, identify nursing diagnosis, and implement and evaluate nursing interventions to promote adaptive responses in pediatric and obstetric patients experiencing alterations in physiologic and psychosocial modes. This course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural and ethnic childbearing beliefs regarding perception of pregnancy, beliefs about labor and delivery, and multicultural practices in the post-partum care of the mother and the newborn. Repeatable = 1 time (CR)
ANNOUNCEMENT OF COURSES

NUR-119 Strategies for the RN Student
1.50 hrs lab
Units: 0.50
Prerequisite: Admission to the Nursing Program
This clinical nursing course provides for renewal of nursing skills in a hospital setting. Clinical objectives will be determined by faculty. Eligibility is limited to students re-enrolling after an extended period of absence or following a clinical failure. Continuation in the nursing program is contingent on a passing grade. Not applicable to associate degree. Repeatable = 1 time (CR)

NUR-118 Leadership Skills in Nursing
3.00 hrs lab
Units: 1.00
Corequisite: Concurrent enrollment in the Nursing Program (NUR-101 through NUR-109)
This course is designed for students concurrently enrolled in the nursing program. This course focuses on developing and/or enhancing critical thinking skills. Areas of communication include using the nursing process to develop a plan of care in assigned clinical patients using the adaptation framework; assisting students in developing understanding of pharmacology, diagnostic results, related pathophysiology, and nursing implications; enhancing therapeutic communication; and developing specific skills in writing a scholarly paper using research techniques. Not applicable to associate degree. Repeatable = 3 times (CR)

NUR-117 Critical Thinking Development-Intensive
1.50 hrs lab
Units: 0.50
Corequisite: Concurrent enrollment in the Nursing Program (NUR-101 through NUR-109)
This course is designed for students concurrently enrolled in the nursing program. This course focuses on developing and/or enhancing critical thinking skills. Areas of communication include using the nursing process to develop a plan of care in assigned clinical patients using the adaptation framework; assisting students in developing understanding of pharmacology, diagnostic results, related pathophysiology, and nursing implications; enhancing therapeutic communication; and developing specific skills in writing a scholarly paper using research techniques. Not applicable to associate degree. Repeatable = 3 times (CR)

NUR-301 Foundations of Nursing
3.00 hrs lecture, 7.50 hrs lab
Units: 5.50
Prerequisite: Admission to the Nursing Program
Advisory: CFS-109 and PSY-108 must be completed by the end of the second semester of the nursing program
Accepted For Credit: CSU
NUR-301 is the first course in the nursing sequence. Students are introduced to the theory and practice of nursing based on the adaptation model. A focus of this course is assessment of patients' physical and psychological adaptation to health and illness across the adult life span, including variations for the geriatric client. The health-illness continuum is explored within the context of the health care delivery system. Common health problems, which adult and geriatric clients have developed adaptive responses, are introduced. Students begin the socialization process into the role of the registered nurse. A special emphasis is placed on the nurse as communicator and critical thinker in a culturally diverse setting. The definition of cultural diversity includes ethnic, cultural, and psychological effects in response to wellness, illness, health practices, and value systems among cultural groups. This course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural beliefs related to variations in concept of health and illness, use of health care delivery systems, communication differences, and barriers such as cultural groups, variances in time, and personal space. Simulated practice of fundamental nursing skills in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)

NUR-302 Nursing Care of the Medical-Surgical Patient I
3.00 hrs lecture, 7.50 hrs lab
Units: 5.50
Prerequisite: NUR-301 with grade of C or better
Advisory: CFS-109 and PSY-108 must be completed by the end of the second semester of the nursing program
Accepted For Credit: CSU
NUR-302 is the second course in the nursing sequence. The focus of this course is advanced concepts in nursing care of the medical-surgical patient experiencing chronic physical and psychological changes related to cardiovascular, respiratory, endocrine-protective, and ingestion and elimination disorders. Issues surrounding chronicity and nursing care of high-risk population will be explored. Students are introduced to the nursing role with the pre-operative, intra-operative, and post-operative patient. Pharmacology is expanded in this course and addressed in each subsequent course. The course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to health care practices of the multicultural individual experiencing chronic disease. Simulated practice of nursing skills is in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)
<table>
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<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture</th>
<th>Lab</th>
<th>Prerequisites</th>
<th>Acceptance</th>
<th>Notes</th>
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<td>Nursing Care of Women and Children</td>
<td>8.00</td>
<td>4.00</td>
<td>12.00</td>
<td>NUR-302 with grade of C or better</td>
<td>CSU</td>
<td>(GR)</td>
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<td>Advisory: CFS-109 and PSY-108 must be completed by the end of the second semester of the nursing program</td>
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<td>NUR-304</td>
<td>Nursing Care of the Medical-Surgical Patient II</td>
<td>5.00</td>
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<td>NUR-303 with grade of C or better</td>
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<td></td>
<td>Prerequisite: NUR-302 with grade of C or better</td>
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<tr>
<td>NUR-305</td>
<td>Nursing Care of the Medical-Surgical Patient III</td>
<td>5.00</td>
<td>2.50</td>
<td>7.50</td>
<td>NUR-304 with grade of C or better</td>
<td>CSU</td>
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<td>Accepted For Credit: CSU</td>
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<tr>
<td>NUR-306</td>
<td>Nursing Care of the Mental Health Client and Advanced Gerontologic Care</td>
<td>5.00</td>
<td>2.00</td>
<td>9.00</td>
<td>NUR-305 with grade of C or better</td>
<td>CSU</td>
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<td>Prerequisite: NUR-303 with grade of C or better</td>
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<td>Accepted For Credit: CSU</td>
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</tbody>
</table>

NUR-303 is the third course in the nursing sequence. The focus of this course is on the nursing process and adaptation model as it relates to the childbearing, child rearing family. The nursing roles of provider and manager of care and as member of the profession are explored in meeting the needs of patients in women’s health care, labor and delivery, post-partum, the newborn nursery, and pediatrics. Lecture classes are strongly augmented by discussion and extensive video and computer program components. The content includes pathophysiology, nursing implications of diagnostic tests, and related pharmacology. Students assess patients, identify nursing diagnosis, implement and evaluate nursing interventions to promote adaptive responses in women and children experiencing alterations in physiologic and psychosocial modes. The course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural and ethnic childbearing beliefs regarding perception of pregnancy, beliefs about labor and delivery, and multicultural practices in the post-partum care of the mother and the newborn. Additionally, this course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to childbearing that have an impact on the hospitalized child and his family; cultural responses to child abuse and the child with congenital anomalies; and multicultural education of families. Simulated practice of nursing skills in a multimedia setting with the use of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital and community setting. (GR)

NUR-304 is the fourth course in the nursing sequence. The focus of this course is advanced concepts in nursing care of the medical-surgical patient experiencing acute physical and psychological changes related to cardiovascular, respiratory, endocrine-protective, and ingestion and elimination disorders. Issues surrounding acute nursing care of high-risk population and the complexity of oncology nursing will be explored. Students will continue to learn the nursing role with the pre-operative, intra-operative, and post-operative patient. Pharmacology is expanded in this course and addressed in each subsequent course. The course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to health care practices of the multicultural individual experiencing acute illness and disease. Simulated practice of nursing skills in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)
**NUR-307 Nursing Leadership and Preceptorship**
1.00 hrs lecture, 12.00 hrs lab  
Units: 5.00  
Prerequisite: NUR-306 with grade of C or better  
Accepted For Credit: CSU  
NUR-307 is the final course in the nursing sequence. The focus of this course is on nursing care and first level management skills in caring for groups of hospitalized patients. Emphasis is placed on team management skills in both acute care and gerontological settings. The registered nurse preceptor directly supervises the student under the guidance of the nursing faculty liaison. Professional development skills, as well as current issues in nursing, are discussed. This course focuses on managing groups of adults and geriatric patients with respect to the individual’s cultural beliefs related to health care practices. The definition of cultural diversity includes ethnic, cultural, and psychological effects in response to wellness, illness, health practices, and value systems among cultural groups. Clinical application of both theory and skills occurs in hospital and gerontological health care facilities.  

**NUR-365 Supervised Tutoring**  
10.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology and skill enhancement in a subject. It may include consultation with skills lab coordinator and supervised tutorings and/or student tutors. Repeatable = 3 times (NG)

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## PERSONAL DEVELOPMENT

Division: Counseling

**PD-100 Transition to College**
1.00 hrs lecture  
Units: 1.00  
Accepted For Credit: CSU  
This course is designed for new students as an orientation to Ohlone and to college life in general. Students will become familiar with various aspects of Ohlone such as campus facilities, programs, services, policies, technology, and campus-wide issues. Additional topics that will be covered are study skills, academic expectations, diversity, health/wellness, and relationships.  

**PD-101 College Survival Techniques**
0.50 hrs lecture  
Units: 0.50  
Accepted For Credit: CSU  
This course covers specific topics designed to help students succeed in college and to understand college life. The emphasis will be on effective learning strategies, problem solving, academic planning, and individual motivation. The theme and content of each class varies and is determined by the counseling faculty. This course will be offered as a short-term course. Repeatable = 2 times (CR)

**PD-105 College Success**
3.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
The goal of this course is to assist students in developing personal and academic skills needed to be successful in college and life. This course integrates personal growth, learning techniques, academic and career success, problem solving, and critical and creative thinking. The course focus is on the following topics: self evaluation and assessment, goal setting, career decision making, educational planning, time and financial management techniques, instructor-student relationships, effective writing and communication, cultural diversity, health maintenance, stress management, campus resources, learning styles and strategies including lecture note-taking, test-taking, memory, and concentration.  

**PD-111 Strategies for College Success**
1.00 hrs lecture  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course covers specific topics designed to help students succeed in college. Additionally, students are assisted in adjusting to college life and identifying learning strategies, problem solving, academic planning, critical thinking, and individual motivation. The theme and content of each class varies and is determined by the counseling faculty. Repeatable = 2 times (GC)

**PD-113 Strategies for Succeeding in College**
2.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU & UC  
This course helps students to adjust to college. The focus is on the following topics: college expectations and opportunities, campus resources, learning styles and strategies including lecture note-taking, test taking, memory and concentration, life management, goal setting, educational planning, health maintenance, cultural diversity and relationships. This course integrates personal growth and academic success with problem solving, critical and creative thinking. The theme and content of each class varies and is determined by the counseling faculty. Repeatable = 2 times (GC)

**PD-114 Introduction to Paraprofessional Counseling**
2.00 hrs lecture, 3.00 hrs lab  
Units: 3.00  
Cross-referenced Course: PSY-114  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course is designed for students who are interested in learning basic counseling theories, skills, and ethics. Training will emphasize crisis intervention, active listening, and other skills which are necessary for effective interpersonal communication. Includes supervised experience on campus and in the community.  

**PD-120 Student Government Workshop**
0.50 hrs lecture, 1.50 hrs lab  
Units: 1.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course explores theories and practice of leadership (roles of leaders, group process, management by objectives, motivational psychology, administration of programs) through lecture, laboratory, student government meetings, and programs. It is recommended for student government officers, club officers, and individuals who want to participate in leadership roles. Repeatable = 3 times (GC)
PD-149  Career Testing Workshop
0.50 hrs lecture
Units: 0.50
Advisory: Eligible for ENGL-151B and ENGL-163
This is a practical course that will allow students to focus on self-exploration through the use of career assessment inventories. The course will assist students in establishing career and educational goals. The course is intended as an introduction to the career planning process and is offered in short course format. Repeatable = 1 time (CR)

PD-150  Career Planning
2.00 hrs lecture
Units: 2.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course will allow students to evaluate personal interests, skills, values, work styles, and experience and to relate them to the world of work. Students will also learn decision making, educational and career planning, locating career resources, job search strategies, and labor market awareness. Repeatable = 2 times (GC)

PD-160  Student Leadership in Higher Education
1.50 hrs lecture, 2.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This class is designed to prepare students for leadership roles in campus and future organizations. It includes communication, leadership roles, proper administration of Robert’s Rules of Order, delegation, and program evaluation. It is open to student government members, general club members, and any student interested in gaining valuable leadership skills. (GC)

PD-170  Welcome Day: The Freshman Connection
0.50 hrs lecture
Units: 0.50
Accepted For Credit: CSU
Various workshops will be taught by counselors, faculty, and administrators to help students make the transition to college. They will learn how to be successful in college, what college services are available to them, and where things are located on campus. The course includes a guaranteed follow-up counseling appointment. (CR)

PD-180  Peer Mentoring
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course is an introduction to peer mentoring. Students learn about interpersonal communication, principles of counseling and advising, and theories of student development. Students have the opportunity to act as peer mentors for new Ohlone students. (GC)

PD-241  College Success for Athletes
2.00 hrs lecture
Units: 2.00
Cross-referenced Course: PE-241
Accepted For Credit: CSU
This course is designed for new student-athletes to assist with the adjustment to college level academics and athletics. The focus is on application of learning strategies, academic planning, time management, transfer and eligibility guidelines, life skills and study skills. Additionally, this course will promote realistic expectations of college while understanding what is necessary to succeed as an intercollegiate athlete. (GC)

PD-365  Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students in developing a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

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PHILOSOPHY
Division: Humanities, Social Sciences, and Mathematics

PHIL-100  Introduction to Philosophy
3.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
An introduction to philosophy, examining various philosophers, and enduring questions such as “What is Reality?” “Who am I?” and “What can I know?” (GC)

PHIL-101  Ancient Philosophy
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is an introduction to the development of Western philosophy through a study of its beginnings in ancient Greece. Thinkers considered include the Presocratics, Socrates, Plato, Aristotle, and post-Socratics such as the Stoics and Epicureans. (GC) (CAN PHIL 8 or PHIL-101 + PHIL-102 = CAN PHIL SEQ A)

PHIL-102  Modern Philosophy
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is an introduction to the history of modern philosophy. Thinkers studied include Descartes, Hobbes, Locke, Berkeley, Hume, Kant, and contemporary philosophers. (GC) (CAN PHIL 10 or PHIL-101 + PHIL-102 = CAN PHIL SEQ A)

PHIL-104  Logic
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This is an introductory course in formal deductive reasoning. Emphasis will be on modern symbolic logic. Topics discussed include truth-functional connectors, truth tables, natural deduction, and proof. (GC) (CAN PHIL 6)

PHIL-106  Ethics
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course examines the major ethical systems and contemporary moral issues. Ethical theories include Kantianism, Utilitarianism, Virtue Theory, and Ethics and Care. Moral issues will include euthanasia, abortion, the death penalty, animal rights, and obligations to charity. (GC) (CAN PHIL 4)
PHIL-107 Practical Reasoning
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This is a practical examination of reasoning and argumentation illustrated by topics drawn from everyday life. Topics examined include the structure and form of arguments, informal fallacies, and ways in which cultural, social, and psychological factors support or detract from the reasoning process. (GC)

PHIL-109A Understanding the Old Testament
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a general introduction to the Hebrew Scriptures. Emphasis will be upon the history, literature, and religion of ancient Israel, using the findings of modern Biblical scholarship. (GC)

PHIL-109B Understanding the New Testament
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a general introduction to the New Testament. Emphasis will be upon the use of modern scholarship to investigate the historical, literary, and religious background of the New Testament. (GC)

PHIL-110 Introduction to Asian Religions
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a survey of the religious and philosophical thought of the great Eastern religious traditions: Hinduism, Buddhism, Confucianism, Taoism, and Shintoism. Cultural backgrounds and historical development will be emphasized. (GC)

PHIL-112 Introduction to Western Religions
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a comparative survey of major religious traditions of the Western World: Judaism, Christianity, Islam, and others. Cultural backgrounds and historical development will be emphasized. (GC)

PHIL-114 Introduction to Islam
3.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course will offer a basic overview of the nature of Islam as a religion or system of life, its culture, and its impact on Muslim individuals and groups. The course will consider the basic sources of Islam and the history of the Islamic tradition. (GC)

PE-195A1 PE Work Experience Education
4.20 hrs lab
Units: 1.00
Advisory: Student must read the notes in the Work Experience Education (WEX) section and follow those instructions
Accepted For Credit: CSU
Through a set of learning objectives established by the student, supervisor, and instructor, each student will work with and learn from professionals in the field of Physical Education (Exercise Science and Wellness). These experiences will enable students to improve job skills, and analyze career opportunities and requirements. Repeatable = 3 times up to 16 units (GC)

PE-195A2 PE Work Experience Education
8.30 hrs lab
Units: 2.00
Advisory: Student must read the notes in the Work Experience Education (WEX) section and follow those instructions
Accepted For Credit: CSU
Through a set of learning objectives established by the student, supervisor, and instructor, each student will work with and learn from professionals in the field of Physical Education (Exercise Science and Wellness). These experiences will enable students to improve job skills, and analyze career opportunities and requirements. Repeatable = 3 times or up to 16 units (GC)

PE-195A3 PE Work Experience Education
12.50 hrs lab
Units: 3.00
Advisory: Student must read the notes in the Work Experience Education (WEX) section and follow those instructions
Accepted For Credit: CSU
Through a set of learning objectives established by the student, supervisor, and instructor, each student will work with and learn from professionals in the field of Physical Education (Exercise Science and Wellness). These experiences will enable students to improve job skills, and analyze career opportunities and requirements. Repeatable = 3 times or up to 16 units (GC)

PE-195A4 PE Work Experience Education
16.70 hrs lab
Units: 4.00
Advisory: Student must read the notes in the Work Experience Education (WEX) section and follow those instructions
Accepted For Credit: CSU
Through a set of learning objectives established by the student, supervisor, and instructor, each student will work with and learn from professionals in the field of Physical Education (Exercise Science and Wellness). These experiences will enable students to improve job skills and analyze career opportunities and requirements. Repeatable = 3 times or up to 16 units (GC)

PE-250 Fitness Camp
0.50 hrs lecture, 2.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Fitness camp is a class designed to start students on getting their body fit. The content includes weight management, increased cardio-respiratory and muscle endurance, decreased body fat, and stress reduction. Repeatable = 3 times (GC)
**PE-252**

**Personal Exercise Program**

0.50 hrs lecture, 1.50 hrs lab

Units: 1.00

Advisory: Medical check within last year

Accepted For Credit: CSU & UC

This course enables the student to continue to practice exercise programs developed in PE-250. The programs must include activities which develop cardiovascular fitness, strength, flexibility, and fitness maintenance. Repeatable = 3 times (GC)

**PE-255**

**Water Safety Instruction**

0.50 hrs lecture, 1.50 hrs lab

Units: 1.00

Advisory: Medical check within last year; current Red Cross Lifesaving Certificate

Accepted For Credit: CSU & UC

This course allows students to refine swimming and life-saving skills and also develop the ability to analyze swimming skills. Students will learn basic techniques of teaching swimming, life saving, and water safety skills. Students will also learn the basis of management of pool and waterfront programs. The ANRC Water Safety Instructor Certificate is issued upon successful completion. Repeatable = 3 times (GC)

**PE-268**

**Golf Instruction and Theory**

1.00 hrs lecture, 2.00 hrs lab

Units: 2.00

Accepted For Credit: CSU

This course includes the study of strength and flexibility and its application, the role and purpose of golf equipment, course management skills and theories, rules, etiquette, mental preparation, and the skills of the swing, putt, chip, and pitch. Repeatable = 1 time (GC)

**PE-300A2**

**Basketball**

2.00 hrs lab

Units: 0.50

Advisory: Medical check within last year

Accepted For Credit: CSU & UC

This course provides the student with an understanding of the fundamentals, rules, strategies and skills of basketball. Game situations will also be covered. (GC)

**PE-300A3**

**Basketball**

3.00 hrs lab

Units: 1.00

Advisory: Medical check within last year

Accepted For Credit: CSU & UC

This course provides the student with an understanding of the fundamentals, rules, strategies and skills of basketball. Game situations will also be covered. (GC)

**PE-300C2**

**Advanced Basketball**

2.00 hrs lab

Units: 0.50

Advisory: Medical check within last year; PE-300A2, PE-300A3, or equivalent

Accepted For Credit: CSU & UC

This course is designed to further develop the techniques of the basketball player who has been taught the fundamentals, rules, and strategies of basketball. This course is recommended for those who have played basketball competitively. (GC)

**PE-300C3**

**Advanced Basketball**

3.00 hrs lab

Units: 1.00

Advisory: Medical check within last year; PE-300A2, PE-300A3, or equivalent

Accepted For Credit: CSU & UC

This course is designed to further develop the techniques of the basketball player who has been taught the fundamentals, rules, and strategies of basketball. This course is recommended for those who have played basketball competitively. (GC)

**PE-301A2**

**Volleyball**

2.00 hrs lab

Units: 0.50

Advisory: Medical check within the last year

Accepted For Credit: CSU & UC

This PE course is designed for students wishing to learn the fundamentals of volleyball. (GC)

**PE-301A3**

**Volleyball**

3.00 hrs lab

Units: 1.00

Advisory: Medical check within the last year

Accepted For Credit: CSU & UC

This PE course is designed for students wishing to learn the fundamentals of volleyball. (GC)

**PE-301B2**

**Intermediate Volleyball**

2.00 hrs lab

Units: 0.50

Advisory: Medical check within the last year; PE-301A2 or A3 or equivalent

Accepted For Credit: CSU & UC

This PE course is designed for students wishing to learn the intermediate strategies and skills of volleyball. (GC)

**PE-301B3**

**Intermediate Volleyball**

3.00 hrs lab

Units: 1.00

Advisory: Medical check within the last year; PE-301A2 or A3 or equivalent

Accepted For Credit: CSU & UC

This PE course is designed for students wishing to learn the intermediate strategies and skills of volleyball. (GC)

**PE-301C2**

**Advanced Volleyball**

2.00 hrs lab

Units: 0.50

Advisory: Medical check within the last year; PE-301B2, PE301B3, or equivalent

Accepted For Credit: CSU & UC

This PE course is designed for students wishing to learn the advanced strategies and skills of volleyball. This course is recommended for the competitive volleyball player. (GC)

**PE-301C3**

**Advanced Volleyball**

3.00 hrs lab

Units: 1.00

Advisory: Medical check within the last year; PE-301B2, PE-301B3, or equivalent

Accepted For Credit: CSU & UC

This PE course is designed for students wishing to learn the advanced strategies and skills of volleyball. This course is recommended for the competitive volleyball player. (GC)

**PE-302A2**

**Flag Football**

2.00 hrs lab

Units: 0.50

Advisory: Medical check within last year

Accepted For Credit: CSU & UC

This co-ed course is designed to assist the student in developing total fitness through flag football. The objective of this course is to provide the students with the general knowledge of flag football with emphasis on team play. (GC)

**PE-302A3**

**Flag Football**

3.00 hrs lab

Units: 1.00

Advisory: Medical check within last year

Accepted For Credit: CSU & UC

This co-ed course is designed to assist the student in developing total fitness through flag football. The objective of this course is to provide the students with the general knowledge of flag football with emphasis on team play. (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Units</th>
<th>Advisory</th>
<th>Accepted For Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-303A2</td>
<td>Soccer</td>
<td>2.00</td>
<td>0.50</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course will instruct the student in the basic techniques of soccer. Basic skills, rules, and basic strategies will be covered. (GC)</td>
</tr>
<tr>
<td>PE-303A3</td>
<td>Soccer</td>
<td>3.00</td>
<td>1.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course will instruct the student in the basic techniques of soccer. Basic skills, rules, and basic strategies will be covered. (GC)</td>
</tr>
<tr>
<td>PE-304A2</td>
<td>Indoor Soccer</td>
<td>2.00</td>
<td>0.50</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course will instruct the student in the basic fundamentals and strategies used in indoor soccer. (GC)</td>
</tr>
<tr>
<td>PE-304A3</td>
<td>Indoor Soccer</td>
<td>3.00</td>
<td>1.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course will instruct the student in basic fundamentals and strategies used in indoor soccer. (GC)</td>
</tr>
<tr>
<td>PE-305C2</td>
<td>Advanced Softball</td>
<td>2.00</td>
<td>0.50</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to further the skills and understanding of each participant so that each might better perform the skills necessary to play the game of softball at a highly competitive level. (GC)</td>
</tr>
<tr>
<td>PE-305C3</td>
<td>Advanced Softball</td>
<td>3.00</td>
<td>1.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>For students with advanced level of softball skill. This is a course for fast pitch softball. (GC) (GC)</td>
</tr>
<tr>
<td>PE-306A2</td>
<td>Slow Pitch Softball</td>
<td>2.00</td>
<td>0.50</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This PE class is designed to provide softball skills and basic strategies at the beginning level. (GC)</td>
</tr>
<tr>
<td>PE-306A3</td>
<td>Slow Pitch Softball</td>
<td>3.00</td>
<td>1.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This PE class is designed to provide softball skills and basic strategies at the beginning level. (GC)</td>
</tr>
<tr>
<td>PE-306B2</td>
<td>Intermediate Slow-Pitch Softball</td>
<td>2.00</td>
<td>0.50</td>
<td>Medical check within last year PE 306A2 or A3 or equivalent</td>
<td>CSU &amp; UC</td>
<td>This PE course is designed to further the skills and understanding of softball for each participant at the intermediate level. (GC)</td>
</tr>
<tr>
<td>PE-306B3</td>
<td>Intermediate Slow-Pitch Softball</td>
<td>3.00</td>
<td>1.00</td>
<td>Medical check within last year; PE-306A2, PE-306A3, or equivalent</td>
<td>CSU &amp; UC</td>
<td>This PE course is designed to further the skills and understanding of softball for each participant at the intermediate level. (GC)</td>
</tr>
<tr>
<td>PE-307C2</td>
<td>Advanced Baseball</td>
<td>2.00</td>
<td>1.00</td>
<td>Medical check within the last year; previous high school or college experience</td>
<td>CSU &amp; UC</td>
<td>This course is designed to improve skills and understanding of baseball fundamentals enabling the student to complete at the college level. Strategy and technique will be taught in non-competitive and competitive situations. Situational hitting and defense practice in game settings will also be stressed. (GC)</td>
</tr>
<tr>
<td>PE-307C3</td>
<td>Advanced Baseball</td>
<td>3.00</td>
<td>1.00</td>
<td>Medical check within the last year; previous high school or college experience</td>
<td>CSU &amp; UC</td>
<td>This course is designed to improve skills and understanding of baseball fundamentals enabling the student to compete at the college level. Strategy and technique will be taught in non-competitive and competitive situations. Situational hitting and defense practice in game settings will also be stressed. (GC)</td>
</tr>
<tr>
<td>PE-308A2</td>
<td>Wrestling</td>
<td>2.00</td>
<td>0.50</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course is an introduction to beginning wrestling with an emphasis on basic skills, the history of the sport, rules, and strategy. Basic skills will include explanation, demonstration, and practice of takedowns, escapes, reversals, the science of riding, and pinning combinations. (GC)</td>
</tr>
<tr>
<td>PE-308A3</td>
<td>Wrestling</td>
<td>3.00</td>
<td>1.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is an introduction to beginning wrestling with an emphasis on basic skills, the history of the sport, rules, and strategy. Basic skills will include explanation, demonstration, and practice of takedowns, escapes, reversals, the science of riding, and pinning combinations. (GC)</td>
</tr>
<tr>
<td>PE-315A2</td>
<td>Beginning Bowling</td>
<td>2.00</td>
<td>0.50</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course provides the student an understanding of the fundamentals of beginning bowling. (GC)</td>
</tr>
</tbody>
</table>
PE-315B2 Intermediate Bowling
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-315A2 or equivalent
Accepted For Credit: CSU & UC
This course is designed for students who wish to learn advanced bowling techniques. (GC)

PE-320A2 Basic Golf Skills
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course is designed to give the student an understanding of the fundamentals of the game of golf including grip, stance, swing, rules, etiquette, and knowledge of equipment. (GC)

PE-320A3 Basic Golf Skills
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course is designed to give the student an understanding of the fundamentals of the game of golf including grip, stance, swing, rules, etiquette, and knowledge of equipment. (GC)

PE-320B2 Intermediate Golf Skills
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year; PE 320A2 or A3 or equivalent
Accepted For Credit: CSU & UC
This course is designed to further develop the techniques of the golfer who has learned the fundamentals of grip, stance, and swing. The use of all clubs and playing situations will be stressed. (GC)

PE-320B3 Intermediate Golf Skills
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year; PE 320A2 or A3 or equivalent
Accepted For Credit: CSU & UC
This course is designed to further develop the techniques of the golfer who has learned the fundamentals of grip, stance, and swing. The use of all clubs and playing situations will be stressed. (GC)

PE-320C2 Advanced Golf Skills
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year; PE 320B2 or B3 or equivalent
Accepted For Credit: CSU & UC
This course is designed for the more advanced students of golf who would like to fine-tune their game and work on any problem areas of play. (GC)

PE-320C3 Advanced Golf Skills
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year; PE 320B2 or B3 or equivalent
Accepted For Credit: CSU & UC
This course is designed for the more advanced students of golf who would like to fine-tune their game and work on any problem areas of play. (GC)

PE-322A2 Golf: Chipping, Pitching, and Putting
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-320A2, PE-320A3, or equivalent
Accepted For Credit: CSU & UC
This is an advanced golf class designed specifically to introduce the student to the skills required in the performance of chipping, pitching, and putting in order to lower their golf score. (GC)

PE-322A3 Golf: Chipping, Pitching, and Putting
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year; PE-320A2, PE-320A3, or equivalent
Accepted For Credit: CSU & UC
This is an advanced golf class designed specifically to introduce the student to the skills required in the performance of chipping, pitching, and putting in order to lower their golf score. (GC)

PE-324A2 On-Course Golf Management
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year; PE-320C2, PE-320C3, or equivalent
Accepted For Credit: CSU & UC
This course is designed to help the student develop the proper shotmaking skills, help reduce stress, and use positive feedback techniques while playing leisure or tournament golf. The student will also play various golf formats and establish a golf handicap. (GC)

PE-324A3 On-Course Golf Management
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year; PE-320C2, PE-320C3, or equivalent
Accepted For Credit: CSU & UC
This course is designed to help the student develop the proper shotmaking skills, help reduce stress, and use positive feedback techniques while playing leisure or tournament golf. The student will also play various golf formats and establish a golf handicap. (GC)

PE-325A2 Tournament Golf
2.00 hrs lab
Units: 0.50
Advisory: Medical checkup within last year
Accepted For Credit: CSU & UC
This course is designed to prepare the individual mentally and physically for the rigors of tournament golf play. The student will play various tournament formats of scramble, best ball, and alternating shot. (GC)

PE-325A3 Tournament Golf
3.00 hrs lab
Units: 1.00
Advisory: Medical checkup within last year
Accepted For Credit: CSU & UC
This course is designed to prepare the individual mentally and physically for the rigors of tournament golf play. The student will play various tournament formats of scramble, best ball, and alternating shot. (GC)

PE-326A2 Swing Analysis
2.00 hrs lab
Units: 0.50
Corequisite: PE-320 or PE-322
Accepted For Credit: CSU & UC
This course is designed to assist the golfer with swing improvement using video. (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours Lab</th>
<th>Advisory</th>
<th>Accepted For Credit: CSU &amp; UC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-326A3</td>
<td>Swing Analysis</td>
<td>0.50</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to assist the golfer with swing improvement using video. Repeatable = 2 times (GC)</td>
</tr>
<tr>
<td>PE-341A2</td>
<td>Strength Training</td>
<td>1.00</td>
<td>3.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to assist the student in developing a strength fitness program through demonstrations and practical applications of sound weight lifting techniques. (GC)</td>
</tr>
<tr>
<td>PE-341A3</td>
<td>Strength Training</td>
<td>0.50</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to assist the student in developing a strength fitness program through demonstrations and practical applications of sound weight lifting techniques. (GC)</td>
</tr>
<tr>
<td>PE-341B2</td>
<td>Intermediate Strength Training</td>
<td>0.50</td>
<td>2.00</td>
<td>Medical check within last year; PE-341A2 or A3 or equivalent</td>
<td>CSU &amp; UC</td>
<td>This activity class is designed to assist the student with advanced strength training techniques for personal muscular development. (GC)</td>
</tr>
<tr>
<td>PE-341B3</td>
<td>Intermediate Strength Training</td>
<td>1.00</td>
<td>3.00</td>
<td>Medical check within the last year; PE-341A2 or A3 or equivalent</td>
<td>CSU &amp; UC</td>
<td>This activity class is designed to assist the student with advanced strength training techniques for personal muscular development. (GC)</td>
</tr>
<tr>
<td>PE-342A2</td>
<td>Circuit Training</td>
<td>0.50</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This activity course is designed to increase flexibility, strength, and cardiovascular endurance of the students through the practical application of circuit training. (GC)</td>
</tr>
<tr>
<td>PE-342A3</td>
<td>Circuit Training</td>
<td>1.00</td>
<td>3.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This activity course is designed to increase flexibility, strength, and cardiovascular endurance of the students through the practical application of circuit training. (GC)</td>
</tr>
<tr>
<td>PE-343A2</td>
<td>Strength and Cardio Training</td>
<td>0.50</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Set in the fitness lab, this course includes the use of free weights, machine weights, and cardiovascular equipment to improve and develop the muscular and cardiovascular systems of the body. (GC)</td>
</tr>
<tr>
<td>PE-343A3</td>
<td>Strength and Cardio Training</td>
<td>1.00</td>
<td>3.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to improve the use of free weights, machine weights, and cardiovascular equipment to improve and develop the muscular and cardiovascular systems of the body. (GC)</td>
</tr>
<tr>
<td>PE-344A2</td>
<td>Total Fitness</td>
<td>0.50</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to provide students, faculty, and staff with an individualized fitness and wellness program through the use of cardio-vascular equipment, circuit training, and machine and free weights. It allows for participation at the student, faculty, and staff convenience during the open lab hours. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-344A3</td>
<td>Total Fitness</td>
<td>1.00</td>
<td>3.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to provide students, faculty, and staff with an individualized fitness and wellness program through the use of cardio-vascular equipment, circuit training, and machine and free weights. It allows for participation at the student, faculty, and staff convenience during the open lab hours. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-345A2</td>
<td>Sport Specific Training</td>
<td>0.50</td>
<td>2.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-345A3</td>
<td>Sport Specific Training</td>
<td>1.00</td>
<td>3.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-345A4</td>
<td>Sport Specific Training</td>
<td>2.00</td>
<td>6.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-346A2</td>
<td>Guts and Butts</td>
<td>0.50</td>
<td>2.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>Guts and Butts is a conditioning program emphasizing muscular strength, toning, and endurance for the abdominal, glutes, and thigh muscle groups. Repeatable = 3 times (GC)</td>
</tr>
</tbody>
</table>
### PE-350A2 Learning to Swim
- **Credits:** 2.00 hrs lab
- **Units:** 0.50
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed for students who want to learn how to swim and become less fearful of the water. This course is also recommended for students wanting to become better swimmers. (GC)

### PE-350A3 Learning to Swim
- **Credits:** 3.00 hrs lab
- **Units:** 1.00
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course consists of a swimming workout consisting of progressively more difficult interval swimming. All four competitive strokes will be used throughout the semester. (GC)

### PE-350D3 Competitive Swimming
- **Credits:** 3.00 hrs lab
- **Units:** 1.00
- **Advisory:** Ability to swim 1200 yards in under 20 minutes; medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course consists of a swimming workout consisting of progressively more difficult interval swimming. All four competitive strokes will be used throughout the semester. (GC)

### PE-351A2 Aquatic Conditioning
- **Credits:** 2.00 hrs lab
- **Units:** 0.50
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed for students who want to improve their swimming and conditioning skills. This progressive program enables the students to become physically fit without injury to joints of the body. (GC)

### PE-351A3 Aquatic Conditioning
- **Credits:** 3.00 hrs lab
- **Units:** 1.00
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed for students who want to improve their swimming and conditioning skills. This progressive program enables the students to become physically fit without injury to joints of the body. (GC)

### PE-355A2 Water Polo
- **Credits:** 2.00 hrs lab
- **Units:** 0.50
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed for students who wish to learn the basic fundamentals and strategies in beginning water polo. This course is highly recommended for the student who wishes to play water polo. (GC)

### PE-353A3 Water Polo
- **Credits:** 3.00 hrs lab
- **Units:** 1.00
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed for students who wish to learn the basic fundamentals and strategies in beginning water polo. This course is highly recommended for the student who wishes to play water polo. (GC)

### PE-353B2 Intermediate Water Polo
- **Credits:** 2.00 hrs lab
- **Units:** 0.50
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed to teach students intermediate water polo skills and strategies. This course is highly recommended for the student who wishes to play water polo. (GC)

### PE-353B3 Intermediate Water Polo
- **Credits:** 3.00 hrs lab
- **Units:** 1.00
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed to teach students intermediate water polo skills and strategies. This course is highly recommended for the student who wishes to play water polo. (GC)

### PE-355A3 Aquatic Stroke Techniques
- **Credits:** 3.00 hrs lab
- **Units:** 1.00
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed for students with very advanced swimming skills. Its focus is on the refinement of swimming techniques of the four competitive swimming strokes: butterfly, backstroke, breaststroke, freestyle and associated starts and turns. Repeatable = 3 times (GC)

### PE-355A4 Aquatic Stroke Techniques
- **Credits:** 6.00 hrs lab
- **Units:** 2.00
- **Advisory:** Medical check within last year
- **Accepted For Credit:** CSU & UC
- **Description:** This course is designed for students with very advanced swimming skills. Its focus is on the refinement of swimming techniques of the four competitive swimming strokes: butterfly, backstroke, breaststroke, freestyle and associated starts and turns. Repeatable = 3 times (GC)
PE-356A2 Water Exercise
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to provide students with a fitness program through various water exercise and swimming workouts. Repeatable = 3 times (GC)

PE-356A3 Water Exercise
3.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to provide students with a fitness program through various water exercise and swimming workouts. Repeatable = 3 times (GC)

PE-357A2 Aqua Aerobics
2.00 hrs lab
Units: 0.50
Advisory: Medical check during previous year
Accepted For Credit: CSU & UC
This course will introduce aerobic activities in the swimming pool. Activities to include rhythmic movements to music, major muscle group exercises, and fluid resistance training. Repeatable = 3 times (GC)

PE-360A2 Badminton
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course is designed to give the student an understanding of the basic fundamentals of badminton. (GC)

PE-360A3 Badminton
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course is designed to give the student an understanding of the basic fundamentals of badminton. (GC)

PE-360B2 Intermediate Badminton
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year; PE-360A2, PE-360A3, or equivalent
Accepted For Credit: CSU & UC
This course is designed to further develop the techniques and skill level of the badminton player. (GC)

PE-360B3 Intermediate Badminton
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year; PE-360B2, PE-360C3, or equivalent
Accepted For Credit: CSU & UC
This course is designed for students to learn the advanced skills of tennis including strategies, rules, and tournament play. (GC)

PE-362A2 Tennis
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to teach the basic fundamentals, rules, and strategies pertaining to the game of tennis. (GC)

PE-362A3 Tennis
3.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to teach the basic fundamentals, rules, and strategies pertaining to the game of tennis. (GC)

PE-362B2 Intermediate Tennis
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year; PE-362A2, PE-362A3, or equivalent
Accepted For Credit: CSU & UC
This course is designed for students to learn the fundamental and intermediate skills of tennis. Strategy sessions in singles as well as doubles play will also be covered. (GC)

PE-362B3 Intermediate Tennis
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year; PE-362A2 or A3 or equivalent
Accepted For Credit: CSU & UC
This course is designed for students to learn the fundamental and intermediate skills of tennis. Strategy sessions in singles as well as doubles play will also be covered. (GC)

PE-362C2 Advanced Tennis
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-362B2, PE-362C3, or equivalent
Accepted For Credit: CSU & UC
This course is designed for students to learn the advanced skills of tennis including strategies, rules, and tournament play. (GC)

PE-362C3 Advanced Tennis
3.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE 362B2 or C3 or equivalent
Accepted For Credit: CSU & UC
This course is designed for students to learn the advanced skills of tennis including strategies, rules, and tournament play. (GC)

PE-365A2 Chi Walking/Running
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course is an aerobic activity designed to provide physical and cardiovascular benefits. Stretching and attaining each individual's target heart rate will be emphasized. (GC)

PE-365A3 Chi Walking/Running
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course is an aerobic activity designed to provide physical and cardiovascular benefits. Stretching and attaining each individual's target heart rate will be emphasized. (GC)
PE-366A2  Dance Aerobics
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This PE course is designed for students to learn a series of
dances which will strengthen the cardiovascular system;
strengthen, tone and trim the skeletal muscle system; and
increase flexibility. (GC)

PE-366A3  Dance Aerobics
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This PE course is designed for students to learn a series of
dances which will strengthen the cardiovascular system;
strengthen, tone and trim the skeletal muscle system; and
increase flexibility. (GC)

PE-367A2  Step Aerobics
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Step Aerobics is an introduction to choreography utilizing the
step as a means for improving cardiorespiratory endurance. A
complete warm-up and cool down will be included. Toning
exercises for the abdominal and upper body will complete the
workout. (GC)

PE-367A3  Step Aerobics
3.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Step Aerobics is an introduction to choreography utilizing the
step as a means for improving cardiorespiratory endurance. A
complete warm-up and cool down will be included. Toning
exercises for the abdominal and upper body will complete the
workout. (GC)

PE-368A2  Hi-Low Aerobics
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course utilizes aerobic exercise done to music to stimulate
cardiorespiratory fitness. A thorough warm-up and cool down,
as well as abdominal strengthening will be included. A final
stretching routine will focus on increasing flexibility, primarily in
the low back and hamstrings. (GC)

PE-368A3  Hi-Low Aerobics
3.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course utilizes aerobic exercise done to music to stimulate
cardiorespiratory fitness. A thorough warm-up and cool down,
as well as abdominal strengthening will be included. A final
stretching routine will focus on increasing flexibility, primarily in
the low back and hamstrings. (GC)

PE-371A2  Total Body Conditioning
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Total body conditioning program emphasizing muscular
strength and endurance, cardiorespiratory endurance, and
flexibility. Aerobic activities are combined with resistance training
exercises and are designed to work the total body. Step aerobics,
aerobic dance, power walking, circuit training, and interval
training will be introduced. (GC)

PE-371A3  Total Body Conditioning
3.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Total body conditioning is a complete conditioning program
emphasizing muscular strength, and endurance,
cardiorespiratory endurance and flexibility. Aerobic activities are
combined with resistance training exercises and are designed to
work the total body. Step aerobics, aerobic dance, power
walking, circuit training, and interval training will be introduced.
(GC)

PE-372A2  Conditioning
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is an aerobic type body conditioning class which
includes stretching, step workout, abdominal development, and
muscle toning exercises. (GC)

PE-372A3  Conditioning
3.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is an aerobic type body conditioning class which
includes stretching, step workout, abdominal development, and
muscle toning exercises. (GC)

PE-374A2  Kickboxing
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course utilizes martial arts techniques including kicks,
punches, blocks, and defenses in a cardio exercise program
designed to aid in the prevention of verbal and physical attacks.
(GC)

PE-374A3  Kickboxing
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This course utilizes martial arts techniques including kicks,
punches, blocks, and defenses in a cardio exercise program
designed to aid in the prevention of verbal and physical attacks.
(GC)

PE-376A2  Yoga
2.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course will explore the philosophies and positions related
to Yoga fundamentals. In addition, concepts of meditation will
be introduced. Repeatable = 3 times (GC)
PE-376A3  Yoga
3.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course will explore the philosophies and positions related to Yoga fundamentals. In addition, concepts of meditation will be introduced. Repeatable = 3 times (GC)

PE-377A2  Pilates
2.00 hrs lab
Units: 0.50
Accepted For Credit: CSU & UC
This course will allow the student to increase their strength, flexibility, stamina, and concentration through the use of floor exercise. This technique driven class will introduce positions such as the 100’s, roll downs, table tops, and rockers. Repeatable = 3 times (GC)

PE-377A3  Pilates
3.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course will allow the student to increase their strength, flexibility, stamina, and concentration through the use of floor exercise. This technique driven class will introduce positions such as the 100’s, roll downs, table tops, and rockers. Repeatable = 3 times (GC)

PE-380  Sports Injury Rehabilitation
5.00 hrs lab
Units: 0.00
Advisory: Instructor referral
This course will provide individualized rehabilitation programs for athletic injuries. Exercises to increase joint range of motion, muscle strength, muscle endurance, agility, and speed will be utilized to assist athletes in rehabilitating their athletic injuries. Repeatable = 3 times (NG)

PE-393A2  Adaptive Physical Education – Strength Training
2.00 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
Individualized course designed to meet physical needs of physically limited students. Recommended for disabled students. (GC)

PE-393A3  Adaptive Physical Education – Strength Training
3.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
Individualized course designed to meet physical needs of physically limited student. Recommended for disabled students. (GC)

PE-394A2  Adaptive Physical Education – Aquatics
2.00 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized aquatic programs allow participation for recreational value. (GC)

PE-394A3  Adaptive Physical Education – Aquatics
3.00 hrs lab
Units: 1.00
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized aquatic programs allow participation for recreational value. (GC)

PE-396A2  Adaptive Physical Education – Striding
2.00 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized cardiovascular conditioning and gradual endurance exercises allow participation for recreational value. (GC)

PE-396A3  Adaptive Physical Education – Striding
3.00 hrs lab
Units: 1.00
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized cardiovascular conditioning and gradual endurance exercises allow participation for recreational value. (GC)

PE-397A2  Adaptive Physical Education – Exercise
2.00 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized fitness and general exercising allows participation for recreational value. (GC)

III
PHYSICAL SCIENCE
Division: Science, Technology, and Academic Affairs

PHS-135  Physical Science
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course explores a variety of physical science topics (focus on solid matter) through laboratory investigation. (CR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PTA-101</td>
<td>Introduction to Physical Therapy</td>
<td>3.00</td>
<td>2.00  hrs lecture, 3.00 hrs lab</td>
<td>This course introduces students to the field of physical therapy by covering the history and ethics of the profession as they relate to the health care system. It will cover the development of the team approach in health care delivery, philosophies of rehabilitation, patient relationships, and the psychosocial impact of illness and injury. Also emphasized is the scope of practice of the physical therapist assistant. Course content includes observational experiences in patient care settings. (GR)</td>
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<tr>
<td>PTA-102</td>
<td>Pathology</td>
<td>3.00</td>
<td>2.00  hrs lecture</td>
<td>This course introduces common pathological conditions with emphasis on the following systems: musculoskeletal, circulatory, respiratory, gastrointestinal, and genitourinary. The role of physical therapy in the treatment of these conditions is covered, as well as interventions commonly performed by the physical therapist assistant. (GR)</td>
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<tr>
<td>PTA-103</td>
<td>Kinesiology I</td>
<td>3.00</td>
<td>2.00  hrs lecture, 3.00 hrs lab</td>
<td>This course deals with the biomechanical principles of the trunk and lower extremities. It includes the kinesiological functions of muscles and muscle groups. Clinical manifestations of muscle dysfunction are covered, as well as techniques for joint measurement. Assessment by manual muscle testing and gait analysis is also covered. (GR)</td>
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<tr>
<td>PTA-104</td>
<td>Kinesiology II</td>
<td>3.00</td>
<td>2.00  hrs lecture, 3.00 hrs lab</td>
<td>This course is a continuation of Kinesiology I and deals with the biomechanical principles of the cervical, upper extremities, and thoracic area of the body. It includes the kinesiological functions of muscles and muscle groups. Clinical manifestations of muscle dysfunction are covered, as well as techniques for joint measurement. Assessment by manual testing and activities of daily living are presented. (GR)</td>
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<tr>
<td>PTA-105A</td>
<td>Therapeutic Exercise I</td>
<td>3.00</td>
<td>2.00  hrs lecture, 3.00 hrs lab</td>
<td>This course teaches the use of exercise as a preventative and rehabilitative modality for the treatment of pathological conditions. Emphasis is placed on the design and application of exercise programs to improve, maintain, and offset the effects of various pathological conditions on the body. (GR)</td>
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<tr>
<td>PTA-105B</td>
<td>Therapeutic Exercise II</td>
<td>3.00</td>
<td>2.00  hrs lecture, 3.00 hrs lab</td>
<td>This course is a continuation of PTA-105A. The emphasis is on rehabilitation exercise programs, testing, and documentation. Programs on balance training, work hardening, water as rehabilitation medium, and specific orthopedic and amputee rehabilitation programs are demonstrated and discussed. (GR)</td>
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<tr>
<td>PTA-106</td>
<td>Orthopedics</td>
<td>3.00</td>
<td>2.00  hrs lecture</td>
<td>This course presents the effects of disease and trauma on the musculoskeletal system and orthopedic problems encountered by the physical therapist assistant in the hospital and out-patient setting. Signs and symptoms, surgical intervention, treatment regimens, and implications for rehabilitation are all covered in this class. (GR)</td>
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<tr>
<td>PTA-107A</td>
<td>Clinical Practicum I</td>
<td>3.00</td>
<td>2.00  hrs lecture, 3.00 hrs lab</td>
<td>This course gives the student initial exposure to physical therapy treatment procedures in the clinical setting with patients experiencing disability of the peripheral and central nervous systems. Students will practice application of physical therapy procedures according to the protocols of the clinical facility. Students will learn the process of communication with patients and therapists. The clinical experience includes initial patient contact, patient set-up, and the administration of modalities under the auspices of the physical therapist clinical instructor. The practicum setting involves training in one or more physical therapy settings as designed by the instructor. Repeatable = 1 time (CR)</td>
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PTA-107B  Clinical Practicum II  
6.00 hrs lab  
Units: 2.00  
Prerequisite: PTA-107A  
Corequisite: PTA-105B, PTA-108  
Accepted For Credit: CSU  
This course is designed to teach students the necessary skills for physical therapy patient care and to build on the skills and knowledge learned in PTA-107A. These skills include active, passive, and resistive exercise programs as well as continued practice in application of thermal-based modalities, gait, and transfer training. Students will learn fundamental procedures for the principles of clinical education from direct teaching through in-service mechanism. Laboratory experiences may include opportunities to practice in more than one setting as designed by the instructor. Repeatable = 1 time (CR)

PTA-107C  Clinical Practicum III  
9.00 hrs lab  
Units: 3.00  
Prerequisite: PTA-107B  
Corequisite: PTA-109, PTA-110, PTA-111  
Accepted For Credit: CSU  
This course is a continuation of the clinical education of the physical therapist assistant. It builds on the skills learned in PTA-107B. This course focuses on the collection and interpretation of clinical data and includes exposure to various testing devices for strength, balance, and coordination. Students are expected to adjust patient treatment plans based on the test results and to communicate these to the clinical instructor for the purpose of modifying treatment plans. Students will conduct a workplace or practice analysis to consider the structure and function of the clinical setting. This evaluation will include such factors as patient referral patterns, time management, staff utilization, and marketing plans. The purpose of the exercise is to acquaint students with fiscal and management considerations in the health care delivery system. Laboratory experiences may include opportunities in more than one setting, as designated by the instructor. Repeatable = 1 time (CR)

PTA-108  Advanced Modalities  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: Admission to PTA/Program PTA-101  
Accepted For Credit: CSU  
This course deals with specific advanced physical therapy procedures which are employed in the physical therapy clinic, including paraffin bath, various types of electrical stimulation (TNS, Micro Current, Interferential, Premodulated, Russian, Galvanic, Iontophoresis, and HFS), various light spectrum modalities (Ultra-violet and Infrared), and electromyography for biofeedback. (GR)

PTA-109  Physical Therapy Through the Life Span  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: Admission to PTA program; PTA-105A, PTA-105B, and PTA-106  
Accepted For Credit: CSU  
This course will introduce students to the role of physical therapy treatment as it applies to the developmental process from gestation through aging. Emphasis is placed on neurodevelopmental techniques used for abnormal development in infants and children, as well as treatment protocols for patients with neurologic or musculoskeletal disorders. The aging process will be covered with concentration on the effects of exercise and activity on improving the quality of life of the individual. Repeatable = 1 time (GR)

PTA-110  Neurological Disorders  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: Admission to the PTA program; PTA-105A, PTA-105B, PTA-107A, and PTA-107B  
Accepted For Credit: CSU  
This course is intended to increase students’ knowledge of the anatomy and physiology of the human nervous system including the central, peripheral, and autonomic nervous systems. Emphasis is placed on the clinical manifestations of disease or injury to the nervous system as it relates to the clinical picture of the physical therapy patient. (GR)

PTA-111  Advanced Procedures  
1.50 hrs lecture, 1.50 hrs lab  
Units: 2.00  
Prerequisite: Admission to PTA Program, PTA-101  
Accepted For Credit: CSU  
This course is a continuation of clinical procedures mastered in PTA-108, Advanced Modalities. This course is an introduction to the application of orthotic and prosthetic devices. Included in the course is a discussion and demonstration of the types of devices utilized in the treatment of the disabled individual, as well as procedures commonly used in the maintenance, donning, and removal of these devices. Students will learn how to instruct and prepare the patient to utilize this specialized equipment. Problem solving will be utilized in assisting students to apply standardized practices to meet individual patient needs. (GR)

PTA-112  Clinical Affiliation  
14.50 hrs lab  
Units: 4.50  
Limitation on Enrollment  
Prerequisite: PTA-107A, PTA-107B, and PTA-107C  
Accepted For Credit: CSU  
This course is the culmination of all previous clinical experiences. Under the guidance of the clinical instructor, students will utilize knowledge gained in the previous four semesters to deliver physical therapy care to patients experiencing simple to complex diagnosis. Students will be expected to participate in the clinic setting by rendering modality treatments, work with patients on activities of daily living, initiate proper application of orthotic and prosthetic devices, and test and interpret results from functional and objective testing, as well as perform documentation and assist with discharge planning. Laboratory experiences may include training in more than one setting as designated by the instructor. Repeatable = 1 time (CR)
PTA-119  Sports Performance Testing  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Cross-referenced Course: PE-256  
Prerequisite: Acceptance in PTA program  
Accepted For Credit: CSU  
This course is intended to cover assessment methods commonly used to evaluate athletic ability. It will cover anaerobic testing methods used to establish baseline, normative, and developmental data. Testing for specific sports such as basketball, football, soccer, and tennis is also covered. Repeatable = 1 time (GR)

PTA-120  Anatomy of Bio-Mechanics  
2.50 hrs lecture, 1.50 hrs lab  
Units: 3.00  
Advisory: BIOL-104  
Accepted For Credit: CSU  
Course content includes origins, insertions, and functions of the muscular system; neural pathways, circulation patterns; joint function; and the biomechanics of muscle tissue, bone, and connective tissues. The course is designed to prepare students for allied health professions where a solid understanding is required for success in subsequent courses. Examples of such professions include PTA, athletic training, personal training, dance therapy, acupressure, and massage therapy. (GR)

PTA-140  PTA Licensure Preparation  
3.00 hrs lab  
Units: 1.00  
This course is designed to assist students in preparation to sit for licensure as a physical therapist assistant. Content, scope, and format of both the National PTA Licensure Exam and the California PT Laws and Regulations Exam will be addressed. Additionally, test-taking skills, study skills, content review, and self-assessment exercises will be used to facilitate preparation for these examinations. Not applicable to associate degree. Repeatable = 1 time (CR)

PTA-150  Medical Ethics and Healthcare in the United States  
3.00 hrs lecture  
Units: 3.00  
Investigation of current medical ethics and bioethics topics relevant to the allied health fields, as well as analysis of health care delivery systems, reimbursement models, and funding issues seen in health care in the United States. Repeatable = 2 times (GC)

PTA-365  Supervised Tutoring  
10.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology and skill enhancement in a subject. It may include consultation with skills lab coordinator and supervised tutoring and/or student tutors. Repeatable = 3 times (NG)

PHYS-108  Survey of Physics  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B, ENGL-163, MATH-151  
Accepted For Credit: CSU & UC  
This is a general education course for non-science majors that gives a non-mathematical survey of physics, exploring the basic principles of mechanics, electromagnetism, quantum mechanics, relativity, and recent developments. Demonstrations are used extensively. (GC)

PHYS-120  Introduction to Physics I  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-181  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course is a study of Newtonian mechanics, energy and transformations, gases, liquids, and solids. Periodic motion and waves will also be studied. (GR) (CAN PHYS 2 or PHYS-120 + PHYS-121 = CAN PHYS SEQ A)

PHYS-120A  Introduction to Physics – Calculus Supplement  
1.00 hrs lecture  
Units: 1.00  
Prerequisite: MATH-101A or equivalent  
Corequisite: PHYS-120  
Accepted For Credit: CSU & UC  
This is an introduction to basic concepts of Calculus with applications to Physics Mechanics. (GR)

PHYS-121  Introduction to Physics II  
3.00 hrs lecture, 3.00 hrs lab  
Units: 4.00  
Prerequisite: PHYS-120  
Accepted For Credit: CSU & UC  
This course is a continuation of PHYS-120 and covers light and optics, electricity, magnetism, and modern physics. (GR) (CAN PHYS 4 or PHYS-120 + PHYS-121 = CAN PHYS SEQ A)

PHYS-121A  Introduction to Physics II – Calculus Supplement  
1.00 hrs lecture  
Units: 1.00  
Prerequisite: MATH-101A and PHYS-120 or equivalent  
Accepted For Credit: CSU & UC  
This is an introduction to Calculus as applied to problems of electromagnetism. (GR)

PHYS-131D  Review of Physics Concepts  
1.00 hrs lecture  
Units: 1.00  
Corequisite: Concurrent enrollment in PHYS-103 or 120 or 121 or 140 or 141 or 142  
This is an introduction to study techniques and more in-depth discussions of physics principles and problem-solving. This course is designed to review the material covered in selected Physics course(s) taken concurrently. Repeatable = 3 times (CR)
PHYS-140 Mechanics
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: MATH-101A with grade of C or better
Corequisite: MATH-101B
Accepted For Credit: CSU & UC
A mathematical introduction to vectors (projections, addition/subtraction, scalar and vector product) is offered as the necessary framework for calculations in Newtonian mechanics. The basic vector and scalar quantities used in the description of motion (position, displacement, velocity, and acceleration) are introduced first, allowing for a kinematical description of motion. Formulas are derived, involving the aforementioned quantities for one-dimensional motion as well as two-dimensional projectile and circular motion. Force and mass, momentum, work and impulse, kinetic and potential energy, and momentum (torque and moment of inertia) are analyzed conceptually and are used to build up the basic formulas from point-mass or extended rigid object dynamics (Newton’s laws of motion, work-energy and impulse-momentum theorem). Different types of motion and new types of forces are analyzed throughout the course using the new concepts (projectile motion due to gravitational force; circular motion due to tension, friction or normal forces; mass-pulley coupled motion problems; collisions due to contact forces; harmonic motion due to spring force; rigid object rotational motion and internal forces; general law of gravity and satellite motion; fluid statics and buoyant force; fluid motion due to pressure difference; and wave motion and superposition and interference of waves if time permits). (GR)

PHYS-141 Electricity and Magnetism
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: PHYS-140
Corequisite: MATH-101C
Accepted For Credit: CSU & UC
This course is a study of electric and magnetic fields, simple DC and AC circuits, and electromagnetic waves. (GR) (CAN PHYS B or PHYS-140 + PHYS-141 + PHYS-142 = CAN PHYS SEQ B)

PHYS-142 Optics, Heat, and Modern Physics
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: PHYS-140
Corequisite: MATH-101C
Advisory: PHYS-141
Accepted For Credit: CSU & UC
A review of wave physics is offered to introduce physical optics (interference, diffraction, polarization) and to prepare for quantum physics. The basic principles of quantum physics (wave-particle duality, uncertainty principle, wave functions and probability interpretation, Schrodinger’s wave equation and quantification) are covered. Wave mechanical calculations are performed on a few simple systems (free and trapped electron, harmonic oscillator) in order to illustrate energy quantification and tunneling. In special relativity, the historical significance of speed of light measurements is discussed in order to understand Einstein’s postulate of special relativity and contrast them with Newtonian relativity. Then appropriate thought experiments are used to establish time dilation, length contraction, and relativistic expressions for Newton’s second law, momentum, acceleration, and kinetic energy. In geometrical optics, the laws of reflection and refraction and their application to optical instruments containing lenses and mirrors are covered. In thermal physics, the concept of temperature and its meaning in kinetic gas theory is highlighted. A phenomenological study of thermal energy transfer and of the laws of thermodynamics is offered. If time permits, a descriptive overview of the Big Bang theory is presented, incorporating results from elementary particle physics, nuclear and general relativity. Labs in wave physics and optics as well as in atomic physics are available. (GR) (CAN PHYS 14 or PHYS-140 + PHYS-141 + PHYS-142 = CAN PHYS SEQ B)

PHYS-190 Scientific Research Methodology
0.50 hrs lecture, 1.50 hrs lab
Units: 1.00
Cross-referenced Course: CHEM-190, GEOL-190, BIOL-190, ENGI-190, CS-190
Prerequisite: Consent of instructor
Advisory: MATH-188; major in science, technology, engineering, or math
This course introduces students to scientific research methods. It includes hypothesis writing, variable identification, experimental design, literature reviews, data interpretation and analysis, research proposal preparation, and presentation of scientific papers. (GR)

PHYS-365 Supervised Tutoring
5.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with a tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. (NG)
**POLITICAL SCIENCE**

Division: Humanities, Social Sciences, and Mathematics

**PS-102**  
**American Government**  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course presents the nature of the constitutional government in America and the theory and practices of democracy. It emphasizes problems of individual rights, popular representation, and responsible leadership at the federal, state, and local levels. (GC) (CAN GOVT 2)

**PS-103**  
**International Relations**  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an analytical study of the relations between nations. The nation-state system, international ethics, national capability components, the international struggle for power, the international struggle for order, and the future world order will be discussed. (GC)

**PS-105**  
**Comparative Government**  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course offers a comparative study of contemporary forms of governments, institutions, and political problems of selected national governments, including Great Britain, France, Germany, and the Soviet Union. This course emphasizes changing and emergent post-war governments. (GC)

**PS-365**  
**Supervised Tutoring**  
5.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or Counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

**PSYCHOLOGY**

Division: Humanities, Social Sciences, and Mathematics

**PSY-101**  
**General Psychology**  
3.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to the study of behavior and mental processes, including psychology as a science, perception, motivation, intelligence, learning, memory, development, personality, mental health, and the biological and social bases of behavior. (GC) (CAN PSY 2)

**PSY-102**  
**Introduction to Experimental Psychology**  
3.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to the theory and application of the scientific method in the study of animal and human behavior. The emphasis is on experimental procedures and data collection, research design, data analysis, presentation, and research report writing. (GC)

**PSY-104**  
**Murder in America**  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: AJ-119  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course surveys the psychological and criminological aspects of murder in America, including serial killers, mass murders, and terrorism. (GR)

**PSY-105**  
**Child Development**  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines the development of children from conception until just prior to adolescence. Course includes the study of prenatal, physical, cognitive, linguistic, social, and emotional development. Course examines many of the concerns and complex issues involved in this developmental period and considers the contexts in which they occur. (GC)

**PSY-106**  
**Adolescent Development**  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a study of human development during adolescence with an emphasis on social, emotional, biological, intellectual, and personality development. This course includes a study of the many issues involved in this developmental period with special emphasis on the context in which they occur: family, peers, school, and culture. (GC)

**PSY-108**  
**A Survey of Human Development**  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a study of human development from conception to death with an emphasis upon understanding events unique to each stage. (GC)

**PSY-112**  
**Social Psychology**  
3.00 hrs lecture  
Units: 3.00  
Advisory: PSY-101 and ENGL-101A  
Accepted For Credit: CSU & UC  
A scientific study of the ways in which individuals are affected by social situations. Current theory and research on interpersonal attraction, prejudice and discrimination, attitude change, power, leadership, and control will be examined. (GC)
PSY-114  Introduction to Paraprofessional Counseling  
2.00 hrs lecture, 3.00 hrs lab  
Units: 3.00  
Cross-referenced Course: PD-114  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course is designed for students who are interested in learning basic counseling theories, skills, and ethics. Training will emphasize crisis intervention, active listening, and other skills which are necessary for effective interpersonal communication. Includes supervised experience on campus and in the community. (GC)

PSY-115  Abnormal Psychology  
3.00 hrs lecture  
Units: 3.00  
Advisory: PSY-101; eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course introduces students to the major theoretical perspectives of psychopathology. It examines the categories of psychological disorders, their etiology, assessment of the disorders, current treatment methods, and possible causes of abnormal behavior. (GR)

PSY-120  Biological Psychology  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course focuses on the nervous system and how it affects human behavior and mental processes. Topics include the anatomy of the nervous system, neural communication, development, plasticity, psychoactive drugs, the senses, sleep-wake cycles, and sexual behavior. (GC)

PSY-139  Psychology in the Workplace  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: BA-139  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course applies principles of psychology to the workplace. Topics include combination skills, stress, cultural diversity, teamwork, understanding self and others, motivation, leadership, and other factors crucial to functioning effectively in the workplace. (GC)

REAL ESTATE  
Division: Fine Arts, Business, and Broadcasting

RE-117  Computer Applications in Real Estate  
2.50 hrs lecture, 1.50 hrs lab  
Units: 3.00  
This course provides students with classroom and laboratory experience in computer applications and their use in the real estate industry. Students learn how computer applications and technology enhance one’s ability to engage in real estate practices. Students use software programs to perform tasks in word processing, spreadsheet, presentation, database, project/time management, and Web page creation. Software in the areas of real estate finance, real estate appraisal, property management, and residential sales are demonstrated. Students learn about the different types of computer and hardware devices. Students will utilize the internet as a research and marketing tool. Repeatable = 1 time (GR)

RE-121  Real Estate Principles  
3.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This is a fundamental real estate course covering basic laws and principles of California real estate. It provides background and terminology necessary for advanced study in specialized courses and is required in order to qualify for the real estate sales license examination. (GC)

RE-122  Real Estate Practice  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121 or a valid real estate license  
Accepted For Credit: CSU  
The day-to-day business of real estate including how to do listings, deposit receipts, open escrows, and obtain financing will be covered. This course is one of the required courses for the real estate salesperson license. (GC)

RE-124  Legal Aspects of Real Estate  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121 or valid real estate license or instructors approval  
Accepted For Credit: CSU  
This course is a study of California real estate law including rights incident to property ownerships and management, agency, contracts, and application of real estate transfer. Specific topics include conveyance, probate proceedings, trust deeds, foreclosure, and recent legislation governing real estate transactions. This course is one of the required courses for the broker’s license examination. (GC)

RE-126  Real Estate Finance  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121 or valid real estate license or instructors approval  
Accepted For Credit: CSU  
This real estate course covers the various types of lenders, their policies, and the market they serve. An in-depth analysis of the secondary market will be covered. This is one of the required courses for the broker’s examination. (GC)

RE-128  Real Estate Appraisal  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121 or valid real estate license  
Accepted For Credit: CSU  
An introductory course covering the purposes of appraisals; the appraisal process; and the different approaches, methods, and techniques used to determine the value of various types of property. This is one of the required courses for the broker’s license examination. (GC)

RE-131  Mortgage Loan Brokering and Lending  
3.00 hrs lecture  
Units: 3.00  
This course introduces students to the aspects of mortgage brokering operations including office setup, loan processing, lending regulations, types of loans, loan submission, quality control, FICO credit scoring, loan packaging, shipping, and mortgage math. (GC)
RE-132 Real Estate Economics  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121  
Accepted For Credit: CSU  
This is an introductory course in real estate economics covering principles from both general economics and real estate practice. It discusses basic economic background for real estate analysis, how real estate markets function, major influences on real estate development, and real estate investment activities. Important economic concepts such as the monetary policy and the fiscal policy are included. (GC)

RE-134 Real Estate Office Administration  
3.00 hrs lecture  
Units: 3.00  
An overview of general real estate brokerage. This course covers the broker and license law, the real estate commission, the specialist and the generalist in brokerage, when and how to expand, sales personnel, recruiting, training and supervision, administration of the brokerage operation, and other topics pertaining to the day-to-day brokerage business. This is one of the elective courses for the broker’s license examination. (GC)

RE-136 Common Interest Developments  
3.00 hrs lecture  
Units: 3.00  
This class covers the basics of managing, purchasing, and selling of common interest developments (CIDs). This is one of the required courses for the sales person and broker’s licenses. (GC)

RE-145 Escrow Procedures  
3.00 hrs lecture  
Units: 3.00  
Advisory: RE-121, valid real estate license, or escrow employment  
This course is a study of the escrow company and its role in the transfer of real property with emphasis on the legal aspects, the requirements of a valid escrow, and the practical use of such companies in the real estate industry. (GC)

RE-149 Real Estate Property Management  
3.00 hrs lecture  
Units: 3.00  
Advisory: RE-121 or valid real estate license  
Accepted For Credit: CSU  
This course studies the day-to-day problems encountered by owners and managers of residential income properties. The application of sound business principles in the pursuit of operational effectiveness is emphasized. (GC)

RE-195A1 Work Experience Education – Vocational  
4.20 hrs lab  
Units: 1.00  
Advisory: Refer to Work Experience Education Department Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

RE-195A2 Work Experience Education – Vocational  
8.30 hrs lab  
Units: 2.00  
Advisory: Refer to Work Experience Education Department Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

RE-195A3 Work Experience Education – Vocational  
12.50 hrs lab  
Units: 3.00  
Advisory: Refer to Work Experience Education Department Notes  
Accepted For Credit: CSU  
Work experience education for students employed in a job directly related to a major. Units received are based on hours worked. (GC)

RE-195A4 Work Experience Education – Vocational  
16.70 hrs lab  
Units: 4.00  
Advisory: Refer to Work Experience Education Department Notes  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

RESPIRATORY THERAPIST

Division: Health Sciences and Academic Affairs

RT-101 Principles of Respiratory Therapy I  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: Admission to the RT program; MATH-151; CHEM-106A or equivalent  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course presents basic theory and rationale for respiratory care. It includes history and organization of respiratory therapy services, basic cardiopulmonary anatomy and physiology, medical gas therapy, and introduction to respiratory pathophysiology. (GR)

RT-101L Beginning Clinical Practice  
3.00 hrs lab  
Units: 1.00  
Prerequisite: Admission to the RT program  
Accepted For Credit: CSU  
This course introduces students to the care of patients requiring respiratory therapy modalities. It also covers beginning level assessment skills, patient interviewing techniques, and the establishment and monitoring of therapeutic equipment systems. Repeatable = 1 time (CR)

RT-102 Beginning Laboratory  
6.00 hrs lab  
Units: 2.00  
Prerequisite: Admission to the RT program  
Accepted For Credit: CSU  
This course provides laboratory practice of beginning-level therapist skills including administration of medical gases, medicated aerosols, and incentive spirometry techniques. Repeatable = 1 time (CR)

RT-103 Basic Patient Care  
1.50 hrs lab  
Units: 0.50  
Prerequisite: Admission to the RT program  
Accepted For Credit: CSU  
This course provides simulated practice of patient care skills in a multimedia setting. Repeatable = 1 time (CR)
RT-104A  Principles of Respiratory Therapy II
3.00 hrs lecture
Units: 3.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course is designed to study hyperinflation therapy, principles of humidification and aerosol therapy, chest assessment, cardiac anatomy and physiology, and acid base balance. Repeatable = 1 time (CR)

RT-104B  Principles of Respiratory Therapy III
3.00 hrs lecture
Units: 3.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course includes study of advanced respiratory physiology including oxygenation and hypoxia and interpretation of arterial blood gas analysis. It includes respiratory care modalities of lung expansion therapy, interpretation of cardiopulmonary patient assessments and documentation of therapy delivered, and methods of equipment cleaning and sterilization. (GR)

RT-105A  Intermediate Laboratory I
3.00 hrs lab
Units: 1.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course provides laboratory practice of intermediate-level therapist skills including chest assessment, hyperinflation therapy, chest physical therapy, and airway management. Repeatable = 1 time (CR)

RT-105B  Intermediate Laboratory II
1.50 hrs lab
Units: 0.50
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course provides laboratory practice of intermediate-level therapist skills especially those related to artificial ventilation. Repeatable = 1 time (CR)

RT-106  Intermediate Clinical Practice
6.00 hrs lab
Units: 2.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. It emphasizes the practice of beginning and intermediate-level problem-solving and technical skills including assessment, oxygen therapy, humidity and aerosol administration, and chest physical therapy; or hyperinflation therapy, airway management, and beginning artificial ventilation. Repeatable = 1 time (CR)

RT-107  Intermediate Clinical Practice
12.00 hrs lab
Units: 4.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. It emphasizes the practice of beginning and intermediate-level problem-solving and technical skills including assessment, oxygen therapy, humidity and aerosol administration, chest physical therapy, hyperinflation therapy, airway management and beginning artificial ventilation. Repeatable = 1 time (CR)

RT-108  Basic Principles of Respiratory Pathophysiology
1.00 hrs lecture
Units: 1.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course emphasizes the principles of common pathophysiologic conditions encountered by respiratory therapy practitioners. Repeatable = 1 time (GR)

RT-130A  Advanced Respiratory Therapy I
2.50 hrs lecture
Units: 2.50
Prerequisite: Admission to RT program; completion of first year of RT program
Accepted For Credit: CSU
This course provides an introduction to the theory of advanced respiratory care with emphasis on refinement of patient assessment techniques, problem solving ability, and development of sound clinical judgments. Repeatable = 1 time (GR)

RT-130B  Advanced Respiratory Therapy II
1.50 hrs lecture
Units: 1.50
Prerequisite: Admission to the RT program; completion of semesters 1, 2, and 3 of RT program
Accepted For Credit: CSU
This course presents concepts of advanced respiratory care with emphasis on recognition, interpretation, and treatment of cardiopulmonary anatomical and physiological alterations of the body as a consequence of disease or trauma. Repeatable = 1 time (GR)

RT-130L  Advanced Clinical Practice
6.00 hrs lab
Units: 2.50
Prerequisite: Admission to RT program; completion of first year of RT program
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. It emphasizes the practice of advanced-level technical skills including procedures employed in emergency care situations, artificial airway maintenance and discontinuance, arterial blood sampling measurements, and initiation and termination of mechanical ventilatory life support. Repeatable = 1 time (CR)

RT-131A  Principles of Mechanical Ventilation I
2.50 hrs lecture
Units: 2.50
Prerequisite: Admission to RT program; completion of first year of RT program
Accepted For Credit: CSU
This course presents the scientific basis for continuous mechanical ventilatory interventions employed in clinical practice of respiratory care with an emphasis on classification, selection, setup, maintenance, complications, adjuncts to and discontinuance of mechanical ventilatory life support. Repeatable = 1 time (GR)

RT-131B  Principles of Mechanical Ventilation II
2.50 hrs lecture
Units: 2.50
Prerequisite: Admission to the RT program; completion of semesters 1, 2, and 3 of RT program
Accepted For Credit: CSU
This course presents special problems in mechanical ventilation as they apply to specific disease entities and trauma and emphasizes interpretation of hemodynamics and pulmonary monitoring systems on the patient requiring cardiovascular and respiratory life support. Repeatable = 1 time (GR)
RT-132  Advanced Laboratory
3.00 hrs lab
Units: 1.00
Prerequisite: Admission to the RT program; completion of first year of RT program
Accepted For Credit: CSU
This course provides laboratory practice of advanced respiratory therapy skills including establishment, stabilization, maintenance, and discontinuance of endotracheal and tracheotomy tubes; arterial blood sampling techniques; radiographic and electrocardiogram interpretation; and invasive and non-invasive monitoring. Repeatable = 1 time (CR)

RT-133  Mechanical Ventilation Laboratory
6.00 hrs lab
Units: 2.00
Prerequisite: Students must successfully complete RT-105B and RT-131A
Accepted For Credit: CSU
This course provides laboratory practice of advanced level therapist skills related to the application of mechanical ventilation including ventilator readiness, circuit changes, maintenance, and adjunctive procedures. Repeatable = 1 time (CR)

RT-134  Neonatal and Pediatric Respiratory Care
1.00 hrs lecture
Units: 1.00
Prerequisite: Admission to the RT program; completion of first two semesters of RT program; BIOL-104, BIOL-106, or BIOL-107 with grade of C or better; PHYS-108 with grade of C or better
Accepted For Credit: CSU
This course addresses fetal development and special problems in the adaptation of respiratory care procedures and techniques to the needs of the neonatal and developing child. Repeatable = 1 time (CR)

RT-134L  Clinical Practicum in Neonatal and Pediatric Respiratory Care
4.50 hrs lab
Units: 1.50
Prerequisite: Admission to the RT program; completion of first two semesters of RT program; BIOL-104, BIOL-106, or BIOL-107 with a grade of C or better; PHYS-108 with a grade of C or better
Accepted For Credit: CSU
This course offers clinical application of respiratory care procedures and techniques to the needs of the premature ill neonate and developing child. Repeatable = 1 time (CR)

RT-135  Computer Simulation for Respiratory Care
1.50 hrs lab
Units: 0.50
Prerequisite: Admission to the RT program; completion of semesters 1, 2, and 3 of RT program
This course prepares students for the Respiratory Care National Board Clinical Simulation Examination which requires specialized knowledge in solving patient management problems written in a branching logic format. Students will practice basic computer skills involving data entry and retrieval. Repeatable = 2 times (GR)(first time), (CR)(subsequent enrollment)

RT-136  Critical Care Clinical Practice
10.50 hrs lab
Units: 3.50
Prerequisite: Admission to the RT program; completion of semesters 1, 2, and 3 of RT program
Corequisite: RT-130B and RT-131B, unless already completed
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. Advanced level respiratory care skills including cardiopulmonary assessment, management, evaluation, and decision-making processes involved in the care of the ICU patient are emphasized. Students in this course practice as a member of the hospital health care team. Repeatable = 1 time (CR)

RT-137  Home Respiratory Care and Pulmonary Rehabilitation
0.50 hrs lecture
Units: 0.50
Prerequisite: Admission to the RT program; completion of semesters 1 and 2 of RT program
Accepted For Credit: CSU
This course provides an overview of the respiratory therapist’s involvement in the home care industry and rehabilitation of the patient coping with chronic cardiopulmonary disease. Decision making, formulation of care plan, and patient teaching are emphasized in this course. Repeatable = 1 time (CR)

RT-138  Specialty Rotations in Respiratory Care
1.50 hrs lab
Units: 0.50
Prerequisite: Admission to the RT program; completion of semesters 1, 2, and 3 of RT program
Accepted For Credit: CSU
This is a supervised clinical experience course at area home care establishments, local hospitals, and pulmonary physicians’ office. Students will have the opportunity to select experiences that match their interests including individual rotations with physicians, participation in ongoing pulmonary rehabilitation programs, and visitation of patients receiving respiratory home care. Repeatable = 1 time (CR)

RT-139  Pulmonary Function Testing
1.00 hrs lecture
Units: 1.00
Prerequisite: Admission to the RT program
Accepted For Credit: CSU
This course provides an in-depth survey of various pulmonary laboratory methods to detect the presence and degree of respiratory impairment/disease. Repeatable = 1 time (CR)

RT-139L  Clinical Practice in Pulmonary Function Testing
1.50 hrs lab
Units: 0.50
Prerequisite: Admission to the RT program
Accepted For Credit: CSU
This course provides supervised clinical experience at area hospitals. Various pulmonary laboratory methods for detecting the presence of respiratory impairment/disease are emphasized. Repeatable = 1 time (CR)

RT-140  Basic Introduction to Polysomnography
9.00 hrs lecture
Units: 0.50
The study and assessment of sleep is a very contemporary concern in the field of respiratory care. This course will provide an overview of sleep adequacy analysis, sleep disorders, and activities of practitioners who assess and treat individuals with sleep problems. (CR)
RT-145  Cardio-Pulmonary Resuscitation (CPR)  
Basic Life Support (BLS)  
0.50 hrs lecture  
Units: 0.50  
Prerequisite: Admission to RT/RN/PTA program; other students may enroll if space is available  
This course meets the American Heart Association requirements for basic life support CPR training for health care professionals only. Repeatable = 1 time (GC)

RT-365  Supervised Tutoring  
10.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
Individualized tutoring to assist students to develop a learning methodology and skills enhancement in a subject. Not applicable to associate degree. Repeatable = 3 times (NG)

SOCIOLOGY

Division: Humanities, Social Sciences, and Mathematics

SOC-101  Introduction to Sociology  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an exploration of our culturally diverse society from a multi-perspective approach. Systematic study of social human behavior and human groups with an emphasis on the influence of social relationships on people’s attitudes, behaviors, and how societies are established and changed. (GC) (TCSU SOC 110)

SOC-102  Social Problems of a Diverse Society  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This is a social problems course emphasizing the exploration of multicultural issues utilizing basic research methods. It is designed to provide a disciplined approach to investigating and understanding the various facets of our culturally diverse society. (GC) (TCSU SOC 120)

SOC-105  Marriage and Family  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course deals with a study of the family as an institution. Emphasis is on developing interpersonal relationships, mate selection, and marital and parental roles. This course will study alternative lifestyles, sex roles in transition, and survey of current literature. (GC)

SOC-106  Chicano Culture I  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CHS-101  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines the social, cultural, political, and economic heritage of the Chicanos and their contribution to American society. (GR)

SOC-301  Sociology of Sport  
3.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: PE-242  
Accepted For Credit: CSU  
This course will examine the history of sport and its political, social, and economic impact on public opinion. This will include an investigation into the phenomenon of sport including cultural stratification, race, gender, education, economics, politics, and the mass media. (GC)

SPANISH

Division: Humanities, Social Sciences, and Mathematics

SPAN-101A  Elementary Spanish  
5.00 hrs lecture, 1.00 hrs lab  
Units: 5.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to fundamentals of Spanish grammar through the development of speaking, reading, writing and listening skills. Course material is presented within the cultural context of Spanish-speaking countries. (GR) (CAN SPAN 2 or SPAN-101A + SPAN-101B = CAN SPAN SEQ A)

SPAN-101B  Elementary Spanish  
5.00 hrs lecture, 1.00 hrs lab  
Units: 5.00  
Prerequisite: SPAN-101A or two years high school Spanish, or permission from instructor  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to fundamentals of Spanish grammar through the development of speaking, reading, writing, and listening skills. Course material is presented within the cultural context of Spanish-speaking countries. It is a continuation of SPAN-101A studies. (GR) (SPAN-101A + SPAN-101B = CAN SPAN SEQ A)

SPAN-102A  Intermediate Spanish  
5.00 hrs lecture, 1.00 hrs lab  
Units: 5.00  
Prerequisite: SPAN-101B with grade of C or better or 3 years high school Spanish  
Accepted For Credit: CSU & UC  
This course is the first half of Intermediate Spanish and a continuation of the SPAN-101 series. The course includes a more in-depth review of grammar, composition, development of conversation skills through an introduction to Spanish and Latin-American literature. Readings include short stories, essays, dramas, poetry and journalism articles in Spanish. (GR) (CAN SPAN 8 or SPAN-102A + SPAN-102B = CAN SPAN SEQ B)
SPAN-101B  Intermediate Spanish  
5.00 hrs lecture, 1.00 hrs lab  
Units: 5.00  
Prerequisite: SPAN-101A with grade of C or better  
Accepted For Credit: CSU & UC  
This course is the second half of Intermediate Spanish and a continuation of SPAN-102A. The course continues with a more in-depth review of advanced grammar, composition, and development of conversation skills through an introduction to Spanish and Latin-American literature. Readings include short stories, essays, dramas, poetry and journalism articles in Spanish. (GR) (CAN SPAN 10 or SPAN-102A + SPAN-102B = CAN SPAN SEQ B)  

SPAN-111  Individualized Spanish Lab  
0.50 hrs lecture, 1.50 hrs lab  
Units: 0.50  
Accepted For Credit: CSU  
This course involves individual and independent laboratory studies to increase students' proficiency in oral and written Spanish. Repeatable = 3 times (GR)  

SPAN-112  Individualized Spanish Lab  
1.00 hrs lecture, 3.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
This course involves individual and independent laboratory studies to increase students' proficiency in oral and written Spanish. Repeatable = 3 times (GR)  

SPAN-121A  Beginning Conversational Spanish  
3.00 hrs lecture  
Units: 3.00  
This course teaches essentials in Spanish conversation leading to the development of oral use of the Spanish language in everyday situations. Students will experience extensive oral practice of the language as well as essential grammatical fundamentals. (GC)  

SPAN-121B  Beginning Conversational Spanish  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: SPAN-121A with grade of C or better or 2 years high school Spanish  
This course continues teaching the essentials in Spanish conversation leading to the development of oral use of the Spanish language in everyday situations. Students will experience extensive oral practice of the language as well as essential grammatical fundamentals. (GC)  

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SPEECH AND COMMUNICATION STUDIES  
Division: Humanities, Social Sciences, and Mathematics  

SPCH-102  Critical Thinking/Group Decision Making  
3.00 hrs lecture  
Units: 3.00  
Prerequisite: Completion of ENGL-101A with a grade of C or better  
Accepted For Credit: CSU & UC  
Enhance small group communication and reasoning in the context of effective group decision making and problem solving. Emphasis on logical reasoning and the evaluation of evidence. (GR)  

SPCH-103  Interpersonal Communication  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligibility for ENGL-101A  
Accepted For Credit: CSU & UC  
Study and practice the principles of relational communication in intrapersonal and interpersonal relationships at home and work. (GR) (CAN SPCH 8)  

SPCH-104  Critical Thinking/Persuasion  
3.00 hrs lecture  
Units: 3.00  
Advisory: Completion of ENGL-101A or SPCH-101 with grade of C or better  
Accepted For Credit: CSU & UC  
Learn persuasive techniques and develop critical thinking skills necessary to evaluate personal and public messages. Emphasis on logical reasoning, evaluation of evidence, and the development of a persuasive message. (GR)  

SPCH-105  Intercultural Communication  
3.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Study the diversity of styles of verbal and nonverbal communication in different cultures. Emphasis on communicating effectively across cultures. (GR)  

SPCH-106  Critical Thinking/Argumentation and Debate  
3.00 hrs lecture, 1.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Study of critical thinking through oral advocacy and debate. Emphasis is on principles of effective argumentation including logic, reasoning, evidence, motivation, persuasion, and refutation through preparation and presentation of written and oral arguments and participation in individual and group debates. (GR)  

SPCH-110A1  Forensics Workshop  
0.50 hrs lecture, 1.50 hrs lab  
Units: 1.00  
Advisory: Completion of ENGL-101A or SPCH-101 with grade of C or better  
Accepted For Credit: CSU  
This is an activity course for students participating in one or more of the following speech activities: debate or individual events such as persuasion, informational speaking, impromptu, and oral interpretation. Repeatable = 3 times (GC)  

SPCH-110A2  Forensics Workshop  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Advisory: Completion of ENGL-101A or SPCH-101 with grade of C or better  
Accepted For Credit: CSU  
This is an activity course for students participating in one or more of the following speech activities: debate or individual events such as persuasion, informational speaking, impromptu, and oral interpretation. Repeatable = 3 times (GC)
SPCH-122 Family Communication
3.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
Explore family communication processes, roles, decision-making techniques, and conflict management in traditional and nontraditional families. (GR)

SPCH-130 Oral Interpretation of Literature
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: TD-130
Corequisite: SPCH-130L
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
Appreciate literature through oral performance and written literary analysis of poetry, prose, and drama. Students will analyze, interpret and communicate literature. (GC)

SPCH-132 Voice and Diction
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: TD-132
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Understand and approve the speaking voice through oral exercises that focus on expressiveness and articulation. Increase vocabulary and use the International Phonetic Alphabet in transcription and pronunciation. (GR)

SPCH-150 Basic English Pronunciation Accent Reduction
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Cross-referenced Course: ESL-151
Advisory: Current enrollment in ESL-181LS
Practice in pronunciation in idiomatic expressions, phraseology, and rhythmic inflections. Emphasis on individual needs in achieving effective oral communication. Not applicable to associate degree. Repeatable = 1 time (GC)

SPCH-151 Introduction to Speech Communication Skills
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ESL-151
Prerequisite: SPCH-150 or ESL-150
This course provides an introduction to basic communication skills for non-native speakers of English for use in classroom presentations. Emphasis will be on communication skills relating to school, personal, and job situations. Not applicable to associate degree. Repeatable = 1 time (GC)

SPCH-190A Speech Communication Lab Consultant
0.50 hrs lecture, 1.50 hrs lab
Units: 1.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. Repeatable 3 times to a maximum of 6 units for SPCH-190A-C. (GC)

SPCH-190B Speech Communication Lab Consultant
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. Repeatable 2 times to a maximum of 6 units for SPCH-190A-C. (GC)
SPCH-190C Speech Communication Lab Consultant
1.00 hrs lecture, 6.00 hrs lab
Units: 3.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. Repeatable to a maximum of 6 units for SPCH-190A-C. (GC)

TAGALOG
Division: Humanities, Social Sciences, and Mathematics

TAG-181A Conversational Tagalog
3.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course is designed to provide basic conversational skills in the Filipino language. Emphasis is placed on the basic usage, idioms, grammar, and structure of the Filipino language, as well as an introduction to Filipino culture and history. (GC)

THEATRE AND DANCE
Division: Fine Arts, Business, and Broadcasting

TD-100 Survey of the Arts
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ART-100, IS-100, MUS-100
Corequisite: TD-100L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
In this course theatre, art, and music are explored through discussion, historical review, and contemporary issues. The purpose of this course is to increase students' understanding and enjoyment of the arts. (GC)

TD-100L Survey of the Arts Performance Attendance Lab
6.00 hrs lab
Units: 0.00
Cross-referenced Course: ART-100L, IS-100L, MUS-100L
Corequisite: TD-100
This is a concert, performance, or gallery attendance lab component for Survey of the Arts course requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. (NG)

TD-101 Introduction to World Theatre
3.00 hrs lecture
Units: 3.00
Corequisite: TD-101L
Accepted For Credit: CSU & UC
This course covers the history of dramatic literature from the Golden Age through 20th Century. Students will focus on the style of writing, performance, and theatrical conventions of each period and how they relate to the society. Students will read plays, view productions, participate in guest lecture/demonstrations, and attend live performances. (GR)

TD-101L Introduction to World Theatre Performance Attendance Lab
3.00 hrs lab
Units: 0.00
Corequisite: TD-101
This is a performance attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. (NG)

TD-102 Introduction to Theatre Appreciation
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: TD-100
Accepted For Credit: CSU & UC
This course is designed for those students who wish to explore the contemporary world of theatre and how it relates to film, video, events, festivals, and the entertainment industry. This course examines all aspects of production: writing, casting, designing, producing, the audience experience, and how the overall plan adapts to each medium. Students will learn through lecture/demonstration, viewing video and film, field trips, attending live and recorded events, guest speakers and performers, small-group discussions, and student-generated reports/presentations. (GR)

TD-107 History of Film
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-107
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This class examines the impact of film on our lives and history. Students will review films, discuss, and analyze techniques used. (GR)

TD-109 Theatre of Today
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is designed for those students who wish to explore the contemporary world of theatre and how it relates to film, video, events, festivals, and the entertainment industry. This course examines all aspects of production: writing, casting, designing, producing, the audience experience, and how the overall plan adapts to each medium. Students will learn through lecture/demonstration, viewing video and film, field trips, attending live and recorded events, guest speakers and performers, small-group discussions, and student-generated reports/presentations. (GR)
TD-110  Introduction to Acting
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Corequisite: TD-110L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is a study of the background and techniques of the
actor with an emphasis on practical experience in
theatre games. Repeatable = 2 times (GC)

TD-116  Acting Laboratory
3.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This laboratory class applies the knowledge and techniques
 gained in the production and technique classes. (GC)

TD-110L Introduction to Acting Performance Attendance Lab
5.00 hrs lab
Units: 0.00
Corequisite: TD-110
This is a performance attendance lab component for fine and
performing arts classes requiring attendance at selected events
offered by the Gary Soren Smith Center for the Fine and
Performing Arts. Repeatable = 1 time (NG)

TD-117A1 Auditon/Portfolio Preparation
1.00 hrs lecture, 1.50 hrs lab
Units: 1.00
Accepted For Credit: CSU
This course is designed to help prepare students for a
professional audition/interview by developing performance
selections, portfolio layouts, and presentation techniques for
regional, summer stock, film/TV, and festival venues. Repeatable
= 3 times (CR)

TD-117D  Dance Performance Preparation
3.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course is designed to help prepare students for a
professional audition/interview by developing performance
selections, portfolio layouts, and presentation techniques for
regional, summer stock, film/TV, and festival venues. Repeatable
= 3 times (CR)

TD-111  Theatre Improvisation
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Corequisite: TD-115L
Accepted For Credit: CSU & UC
Students will learn how to improvise a story, character, setting,
and costume. They will create through pantomime as well as
vocal techniques. There will be public performances on tour and
in conjunction with the student-directed one acts. Repeatable = 1
time (GR)

TD-115A Audition/Portfolio Preparation
1.50 hrs lecture, 4.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is designed to help prepare students for a
professional audition/interview by developing performance
selections, portfolio layouts, and presentation techniques for
regional, summer stock, film/TV, and festival venues. Repeatable
= 3 times (CR)

TD-117A2 Auditon/Portfolio Preparation
1.50 hrs lecture, 1.50 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is designed to help prepare students for a
professional audition/interview by developing performance
selections, portfolio layouts, and presentation techniques for
regional, summer stock, film/TV, and festival venues. Repeatable
= 3 times (CR)

TD-117T  Theatre Technology Lab
0.50 hrs lab
Units: 0.50
Accepted For Credit: CSU & UC
This class provides hands on instruction in theatre technology,
including lights, sound, and set construction. Not applicable to
associate degree. Repeatability = 3 times (GC)

TD-112  Acting Styles-Classical
3.00 hrs lecture, 3.00 hrs lab
Units: 4.00
Prerequisite: TD-110 or equivalent
Accepted For Credit: CSU & UC
This course is a study of dramatic literature for the purpose of
performance including major study of Shakespeare’s comedies,
tragedies, and histories. Background examination and
performance appraisal will highlight each area of study. The
emphasis is upon performance of characters in monologue and
scene work from selected comedies, histories, and tragedies.
Nine plays will be studied and several will be viewed both live
and on video. Repeatable = 1 time (GR)

TD-118  Survey of Acting Techniques
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course is an active survey of, and participation in, a variety
of public performance techniques, including monologues, reader’s theatre, improvisation, radio plays, and
theatre games. Repeatable = 2 times (GC)

TD-115L  Theatre Improvisation Performance Attendance Lab
4.00 hrs lab
Units: 0.00
Corequisite: TD-115A
This is a performance attendance lab component at selected
events offered by the Gary Soren Smith Center for the Fine and
Performing Arts. Repeatable = 1 time (NG)
ANNOUNCEMENT OF COURSES

TD-120A3 Student Repertory Theatre
9.00 hrs lab
Units: 3.00
Prerequisite: Auditions (for actors only)
Advisory: TD-110
Accepted For Credit: CSU & UC
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. There will be up to six productions, one of which may be a children's/family program. Members of the company will be expected to participate in all phases of production. Repeatable = 3 times to a maximum of 9 units (GR)

TD-120A4 Student Repertory Theatre
12.00 hrs lab
Units: 4.00
Prerequisite: Auditions (for actors only)
Advisory: TD-110
Accepted For Credit: CSU & UC
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. There will be up to six productions, one of which may be a children's/family program. Members of the company will be expected to participate in all phases of production. Repeatable = 3 times to a maximum of 9 units (GR)

TD-120B3 Student Repertory Theatre
9.00 hrs lab
Units: 3.00
Prerequisite: Auditions (for actors only)
Advisory: TD-120A3 or TD-120A4
Accepted For Credit: CSU & UC
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. There will be up to six productions, one of which may be a children's/family program. Members of the company will be expected to participate in all phases of production, particularly in the capacity of producer, director, designer, or other position of artistic or business leadership. Repeatable = 3 times to a maximum of 9 units (GR)

TD-120B4 Student Repertory Theatre
12.00 hrs lab
Units: 4.00
Prerequisite: Auditions (for actors only)
Advisory: TD-120A3 or TD-120A4
Accepted For Credit: CSU & UC
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. There will be up to six productions, one of which may be a children's/family program. Members of the company will be expected to participate in all phases of production, particularly in the capacity of producer, director, designer, or other position of artistic or business leadership. Repeatable = 3 times to a maximum of 9 units (GR)

TD-121A Dance Rehearsal and Performance
6.00 hrs lab
Units: 2.00
Advisory: Co-enrollment in a dance technique class
Accepted For Credit: CSU
This class is an educational setting for dance performance. The students will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. Repeatable = 3 times (GC)

TD-121B Dance Rehearsal and Performance
9.00 hrs lab
Units: 3.00
Advisory: It is highly recommended that each student is co-enrolled in a dance technique class
Accepted For Credit: CSU
This class is an educational setting for dance performance. The student will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. Repeatable = 2 times (GC)

TD-121C Dance Rehearsal and Performance
12.00 hrs lab
Units: 4.00
Advisory: It is highly recommended that each student is co-enrolled in a dance technique class
Accepted For Credit: CSU
This class is an educational setting for dance performance. The student will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. Repeatable = 2 times (GC)

TD-121L Dance Rehearsal and Performance Lab
2.00 hrs lab
Units: 0.00
This class is an educational setting for dance performance. The student will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. This class is especially geared toward the first time performer. Repeatable = 3 times (NG)

TD-122 Rehearsal and Performance
6.00 hrs lab
Units: 2.00
Prerequisite: Auditions
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110
Accepted For Credit: CSU & UC
This class is for students performing in a major college production. Enrollment is for the duration of the production. Repeatable = 3 times (GR)

TD-123 Rehearsal and Performance
9.00 hrs lab
Units: 3.00
Prerequisite: Auditions
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110
Accepted For Credit: CSU & UC
This class is for students performing in a major college production. Enrollment is for the duration of the production. Repeatable = 3 times (GR)

TD-124 Rehearsal and Performance
12.00 hrs lab
Units: 4.00
Prerequisite: Auditions
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110
Accepted For Credit: CSU & UC
This class is for students performing in a major college production. Enrollment is for the duration of the production. Repeatable = 3 times (GR)
TD-125  Summerfest – Principals
36.00 hrs lab
Units: 7.00
Prerequisite: Audition
Accepted For Credit: CSU & UC
This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production in a principal role. Specific instruction will be given in acting, movement, speech, singing, and accents as they relate to the style and history of the period and to musical theatre specifically. Repeatable = 3 times (GC)

TD-126  Summerfest – Featured Parts
31.50 hrs lab
Units: 6.00
Prerequisite: Audition
Accepted For Credit: CSU & UC
This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production in a feature role. Specific instruction will be given in acting, movement, speech, singing, and accents as they relate to the style and history of the period. Repeatable = 3 times (GC)

TD-127  Summerfest – Chorus and Instrument Members
26.00 hrs lab
Units: 5.00
Prerequisite: Audition
Accepted For Credit: CSU & UC
This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production as a chorus or orchestra member. Specific instruction will be given in acting, movement, speech, music, and singing as they relate to the style and history of the period. Repeatable = 3 times (GC)

TD-129  Summerfest – Technicians
37.80 hrs lab
Units: 7.00
Advisory: TD-150
Accepted For Credit: CSU & UC
This course is normally taught as an eight to ten-week summer session course. It is designed to familiarize and teach students the various technical aspects such as set construction, lighting, costuming, makeup, publicity, and house management needed for the preparation and production of a major theatrical Summerfest production. Repeatable = 3 times (GC)

TD-130  Oral Interpretation of Literature
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: SPCH-130
Corequisite: TD-130L
Advisory: Eligibility for ENGL-101A
Accepted For Credit: CSU & UC
Appreciate literature through oral performance and written literary analysis of poetry, prose, and drama. Students will analyze, interpret, and communicate literature. (GR)

TD-130L  Oral Interpretation of Literature Lab
2.00 hrs lab
Units: 0.00
Cross-referenced Course: SPCH-130L
Corequisite: TD-130
Attendance at related events offered by Ohlone College at the Gary Soren Smith Center for the Fine & Performing Arts. Not applicable to associate degree. (NG)

TD-132  Voice and Diction
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: SPCH-132
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Understand and approve the speaking voice through oral exercises that focus on expressiveness and articulation. Increase vocabulary and use the International Phonetic Alphabet in transcription and pronunciation. (GR)

TD-140  Dance for Musical Theatre
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Advisory: TD-150
Accepted For Credit: CSU & UC
This class explores the various styles of dance found in musical theatre. Movement styles from different periods are also explored beginning with the 1920’s and continuing through current dance trends of Broadway and MTV. Repeatable = 3 times (GC)

TD-141A  Introduction to Ballet
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Corequisite: TD-141AL
Advisory: TD-141A
Accepted For Credit: CSU & UC
This class introduces the rudiments of classical ballet to the beginning dance student. Students will develop the strength and coordination to perform the technical skills of basic ballet through barre and center work and by learning simple movement combinations. Ballet terminology will be covered. Repeatable = 3 times (GC)

TD-141AL  Ballet Performance Attendance Lab
2.50 hrs lab
Units: 0.00
Corequisite: TD-141A
This is a performance attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-141B  Intermediate Ballet
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Corequisite: TD-141BL
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This class continues the training in the rudiments of classical ballet for the beginning-intermediate student. The students will further develop the technical skills to perform intermediate-level steps and combinations of movement. Ballet terminology will be covered. Repeatable = 3 times (GC)

TD-141BL  Ballet Performance Attendance Lab
2.50 hrs lab
Units: 0.00
Corequisite: TD-141B
This is a performance or attendance lab component at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-142A  Introduction to Jazz Dance
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Corequisite: TD-142AL
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn the basic skill of jazz dance with emphasis on body alignment, strength, and coordination. Repeatable = 3 times (GC)
TD-142AL  Introduction to Jazz Dance  
Performance Attendance Lab  
2.50 hrs lab  
Units: 0.00  
Corequisite: TD-142A  
This is a performance attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-142B  Intermediate Jazz Dance  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Corequisite: TD-142BL  
Advisory: Medical check within last year  
Accepted For Credit: CSU & UC  
Students will work on more advanced skills and styles inherent in jazz dance. Class work will deal with technical skills, combinations of steps, and exploration of composition in jazz dance form. (GC)

TD-142CL  Advanced Jazz Dance  
2.50 hrs lab  
Units: 0.00  
Corequisite: TD-142C  
This is a performance attendance lab component for Fine and Performing Arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-143A  Intermediate Tap  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Corequisite: TD-143BL  
Advisory: Medical check within last year  
Accepted For Credit: CSU & UC  
Students will develop intricate skills in tap dancing by studying intermediate-level movements and combinations with some provision for student composition of dance. Performance skills will be included. Repeatable = 3 times (GC)

TD-143B  Advanced Tap Dance  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Corequisite: TD-143CL  
Accepted For Credit: CSU & UC  
Students will continue to develop intricate skills in tap dancing by studying advanced rhythm patterns, movements, and combinations with some provision for student composition of dance. Performance skills will be included. Repeatable = 3 times (GC)

TD-143CL  Advanced Tap Dance Performance Attendance Lab  
2.50 hrs lab  
Units: 0.00  
Corequisite: TD-143C  
This is a performance attendance lab component for Fine and Performing Arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-144A  Introduction to Modern Dance  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Corequisite: TD-144AL  
Advisory: Medical check within last year  
Accepted For Credit: CSU & UC  
Students will learn basic skills of modern dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

TD-144AL  Introduction to Modern Dance  
Performance Attendance Lab  
2.50 hrs lab  
Units: 0.00  
Corequisite: TD-144A  
This is a performance attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-144B  Intermediate Modern Dance  
1.00 hrs lecture, 3.00 hrs lab  
Units: 2.00  
Corequisite: TD-144BL  
Advisory: Medical check within last year  
Accepted For Credit: CSU & UC  
Students will continue to develop their bodies as an instrument for dance, progressing to longer, faster-paced, more diversified, and more difficult movement combinations. Coursework will include some creative dance experiences, abstract dance, and musical mime. Repeatable = 3 times (GC)
TD-144B Intermediate Modern Dance Performance Attendance Lab
2.50 hrs lab
Units: 0.00
Corequisite: TD-144B
This is a performance attendance lab component for fine and performing arts classes requiring attendance at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-145A2 Introduction to Ballroom Dance
2.00 hrs lab
Units: 0.50
Advisory: TD-100
Accepted For Credit: CSU & UC
Students will learn basic steps and skills of ballroom dance with emphasis on body alignment, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

TD-145A3 Introduction to Ballroom Dance
3.00 hrs lab
Units: 1.00
Advisory: TD-100
Accepted For Credit: CSU & UC
Students will learn basic steps and skills of ballroom dance with emphasis on body alignment, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

TD-145A4 Introduction to Ballroom Dance
6.00 hrs lab
Units: 2.00
Advisory: TD-100
Accepted For Credit: CSU & UC
This course is a study of the combined elements of contemporary social dance, focusing on partnering, body deportment, rhythm, styling and co-ordination. Repeatable = 3 times (GC)

TD-145B2 Intermediate Ballroom Dance
2.00 hrs lab
Units: 0.50
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4 or equivalent
Accepted For Credit: CSU & UC
This course is an in-depth study of contemporary ballroom dance focusing on intricate partnering, balance, rhythm, styling, and step combinations and patterns. Repeatable = 3 times (GC)

TD-145B3 Intermediate Ballroom Dance
3.00 hrs lab
Units: 1.00
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4 or equivalent
Accepted For Credit: CSU & UC
This course is an in-depth study of contemporary ballroom dance focusing on intricate partnering, balance, rhythm, styling, and step combinations and patterns. Repeatable = 3 times (GC)

TD-145B4 Intermediate Ballroom Dance
6.00 hrs lab
Units: 2.00
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4 or equivalent
Accepted For Credit: CSU & UC
This course is an in-depth study of contemporary ballroom dance focusing on intricate partnering, balance, rhythm, styling, and step combinations and patterns. Repeatable = 3 times (GC)

TD-146L Open Dance Lab
1.20 hrs lab
Units: 0.00
Corequisite: The student must currently be enrolled in a dance class on campus
The student will have supervised and tutored studio time to perfect skills and techniques learned in the dance class. Repeatable = 3 times (NG)

TD-148A2 Introduction to Hip Hop
2.00 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn basic skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

TD-148A3 Introduction to Hip Hop
3.00 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn basic skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

TD-148B2 Intermediate Hip Hop
2.00 hrs lab
Units: 0.50
Prerequisite: Successful completion of TD-148A2 or A3
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn, at an intermediate level, skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement and creative expression. Repeatable = 3 times (GC)

TD-148B3 Intermediate Hip Hop
3.00 hrs lab
Units: 1.00
Prerequisite: Successful completion of TD-148A2 or TD-148A3
Accepted For Credit: CSU & UC
Students will learn, at an intermediate level, skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement and creative expression. Repeatable = 3 times (GC)

TD-149 Choreography for Production
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Corequisite: TD-124
Accepted For Credit: CSU
Students will learn methods and elements of choreography and relate them to technical theatre elements of set, lighting, costuming, and sound. Repeatable = 1 time (GC)

TD-150 Technical Theatre
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This course introduces the theory and practice of technical theatre production. Emphasis is placed on theatre safety, scenery construction techniques and materials, and backstage procedures. Students receive hands-on training in the scene shop and as members of the stage crew of a department production. Repeatable = 3 times (GR)
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Units</th>
<th>Advisory</th>
<th>Prerequisite</th>
<th>Repeatable</th>
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<td>Introduction to Lighting</td>
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TD-169 Performance Practicum
6.00 hrs lecture
Units: 2.00
This class introduces the students to rehearsal and performance techniques specific to community and educational theatre. Repeatable = 3 times (GR)

TD-170 Survey of Entertainment Design
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course explores trends in entertainment design and technology through lectures and fieldtrips. Areas covered will include live performance, film and television, themed entertainment, retail and corporate events. The purpose of this course is to provide students with a broad overview of the field of entertainment design and technology with emphasis on current and future employment opportunities and the skills needed for them. (GC)

TD-171 3D Entertainment Design for Lighting
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: ID-155 or equivalent; TD-152
Accepted For Credit: CSU
This course focuses on the fundamentals of computer-aided design as related to lighting design for the entertainment industry. Using Mini-CAD design and drafting programs, this course will guide students through the process of creating lighting designs using three-dimensional models of theatres and other spaces. Repeatable = 1 time (GR)

TD-172 Intermediate Lighting for Stage, Television, and Live Events
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: TD-152 or stage/TV lighting experience
Accepted For Credit: CSU
This course offers project-based instruction on the equipment and techniques used in lighting. It will be divided into three sections, each of which will focus on a specific area of the entertainment industry: lighting for the stage, for television production, and for live events. Repeatable = 3 times (GC)

TD-173 Introduction to Moving Lights
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Advisory: TD-172
Accepted For Credit: CSU
This course offers an introduction to the technology and applications of intelligent lighting systems for the entertainment industry. The course and lab work will concentrate on the features and functions of a wide variety of lighting fixtures and control systems in use in the entertainment industry today. Repeatable = 3 times (GC)

TD-174 Intermediate Moving Lights
1.00 hrs lecture, 3.00 hrs lab
Units: 2.00
Prerequisite: TD-173
Advisory: TD-172
Accepted For Credit: CSU
This course builds upon the work done in TD-173. Students will begin designing with, and programming, intelligent lighting systems for different types of events (concerts, corporate parties, trade shows). More sophisticated work will be done in trouble shooting, servicing, and rigging, as well. Repeatable = 3 times (GC)

TD-175 Intermediate Sound for Stage, Television and Live Events
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: TD-152 or stage/TV sound experience
Accepted For Credit: CSU
This course offers project-based instruction on the equipment and techniques used in sound design, recording, and reinforcement. It will be divided into three sections, each of which will focus on a specific area of the entertainment industry: sound for the stage, for television production, and for live events. Repeatable = 3 times (GC)

TD-176 Digital Sound Editing for Stage and Television
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: TD-175, MUS-113
Accepted For Credit: CSU
This project-based course provides advanced, hands-on instruction in industry-standard digital sound editing and MIDI systems, including Peak, ProTools, and CueBase. The course is intended for students pursuing careers in audio/technology in the entertainment industry. Repeatable = 2 times (GC)

TD-178 Fundamentals of Rigging
2.00 hrs lecture, 2.00 hrs lab
Units: 2.00
Advisory: TD-150; ability to climb ladders and lift 50 pounds
This course offers an introduction to the rigging systems and equipment commonly used in the entertainment industry. Through a combination of classroom and lab, students will learn the fundamental concepts of safe rigging including load calculation and placement, safety devices, and fall protection. Students should be in good physical condition and must be able to climb ladders and lift fifty pounds. Repeatable = 1 time (GC)
TD-179 Introduction to Stage Management
2.00 hrs lecture, 3.00 hrs lab
Units: 3.00
Advisory: ID-155 or equivalent, TD-152
Accepted For Credit: CSU
This course introduces the responsibilities, techniques, and tools of a modern stage manager for live and broadcast events. Areas covered will include creating schedules, promptbooks, and other paperwork; organizing and managing crew; managing production meetings; managing the rehearsal process; running performances. (GC)

TD-180 Television Series Production
9.00 hrs lab
Units: 3.00
Cross-referenced Course: BRDC-180
Accepted For Credit: CSU
In this course students will participate in the production of episodic television programs. The positions for students include both talent and technical operations. Repeatable = 3 times (GR)

TD-181 Directing for the Camera
2.00 hrs lecture, 6.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B, TD-114
Accepted For Credit: CSU
Using three-camera technique, the students will produce and direct four dramatic scenes for television and one music video. Using single and multi-camera shots, students will produce, direct, and edit one dramatic scene. Repeatable = 2 times (GR)

TD-195A1 Work Experience Education – Vocational
4.20 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

TD-195A2 Work Experience Education – Vocational
8.30 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

TD-195A3 Work Experience Education – Vocational
12.50 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

TD-195A4 Work Experience Education – Vocational
16.70 hrs lab
Units: 4.00
Advisory: Refer to Work Experience Education Department Notes
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

TD-365 Supervised Dance Lab
6.00 hrs lab
Units: 0.00
Prerequisite: Instructor or Counselor referral
Corequisite: TD-141, TD-142, TD-143, TD-144, TD-145, or TD-148, or consent of instructor
Open dance studio, supervised by dance faculty. Dance styles and schedules to be coordinated by instructor. Repeatable = 3 times (NG)

WS-115 Women in Literature
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: ENGL-115
Accepted For Credit: CSU & UC
This course is a study of selected fiction, poetry, drama, and essays of British and American women writers past and present. (GC)

WS-120 Women of the Western World
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-120
Prerequisite: ENGL-101A
Accepted For Credit: CSU & UC
This course is an interdisciplinary course involving an overview of women’s traditional roles in the western world; the history of the feminist movement, past and present; and an attempt to define the changing role of women in a diverse contemporary American society. Cross-cultural information about women’s roles in other societies will be regularly introduced. (GC)

WS-150 Women’s Health Issues
3.00 hrs lecture
Units: 3.00
Cross-referenced Course: HLTH-150
Accepted For Credit: CSU & UC
This course is a study of the contemporary issues of women’s health at home and at work from the biological, psychological, and sociological perspectives that affect women in American culture, including such topics as mental health, sexuality, parenting, nutrition, exercise, rape and battery, aging, occupational health, and cultural diversity. (GC)
WORK EXPERIENCE EDUCATION
Division: Counseling

WEX-101 Introduction to Work Experience
1.00 hrs lecture
Units: 0.00
Through a set of learning objectives established by the student, supervisor, and instructor, students will enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Students in a job related to their major field of study will also improve job skills and analyze career opportunities and requirements. Repeatable = 3 times (NG)

WEX-185A1 Work Experience Education
4.20 hrs lab
Units: 1.00
Accepted For Credit: CSU
Corequisite: WEX-101; Parallel Plan (Work and attend school at the same time): Enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-185 units. Alternate Plan (Work and attend school alternately): Enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the alternate plan; students may enroll in up to six semester units per semester. General limitations: Students may not enroll in WEX-185 and WEX-195 concurrently

WEX-185A2 Work Experience Education
8.30 hrs lab
Units: 2.00
Accepted For Credit: CSU
Corequisite: WEX-101

WEX-185A3 Work Experience Education
12.50 hrs lab
Units: 3.00
Accepted For Credit: CSU
Corequisite: WEX-101

WEX-185A4 Work Experience Education
16.70 hrs lab
Units: 4.00
Accepted For Credit: CSU
Corequisite: WEX-101

WEX-195A1 Occupational Work Experience Education
4.20 hrs lab
Units: 1.00
Accepted For Credit: CSU
Corequisite: WEX-101; Parallel Plan (Work and attend school at the same time): Enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-185 units. Alternate Plan (Work and attend school alternately): Enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the alternate plan; students may enroll in up to six semester units per semester. General limitations: Students may not enroll in WEX-185 and WEX-195 concurrently

WEX-195A2 Occupational Work Experience Education
8.30 hrs lab
Units: 2.00
Accepted For Credit: CSU
Corequisite: WEX-101

WEX-195A3 Occupational Work Experience Education
12.50 hrs lab
Units: 3.00
Accepted For Credit: CSU
Corequisite: WEX-101

WEX-195A4 Occupational Work Experience Education
16.70 hrs lab
Units: 4.00
Accepted For Credit: CSU
Corequisite: WEX-101
Policies and Procedures

Chapter 19

Policies and Procedures

Policies of the Ohlone Community College District are posted on the Ohlone Community College Web site at www.ohlone.edu/org/board/policy and contained in the District Board Policy Manual. Copies of the manual may be consulted in the Ohlone College Library and the Office of the President/Superintendent.

Information about policies and procedures relating to admission, residency and fees, and academic regulations are included in the related sections of this catalog.

ACADEMIC FREEDOM

The following academic freedom statement is from the Board of Trustees for the Ohlone Community College District Policy 4030.

- Reference: Title 5, Section 51023; Accreditation Standard II.A.7.
- Board Approved: 11/09/05

Citizens in a free society in order to discharge their responsibilities intelligently must examine, with critical judgment, all points of view on major issues.

The Governing Board of the Ohlone Community College District in order to create an environment and atmosphere most conducive to excellent teaching and to provide students with the most appropriate learning conditions approve the following policy for Academic Freedom:

The community having invested resources in a community college has the obligation to support and sustain an atmosphere which encourages the free exploration of ideas.

Academic Freedom includes the protection of the opportunity for the teacher to teach, and for the teacher and the student to study, without coercion, censorship, or other forms of restrictive interference and that academic freedom encourages the flow of ideas with the recognition that freedom to teach and freedom to learn imply both rights and responsibilities within the framework of the law.

Instructors as citizens, members of a learned profession, and representatives of the Ohlone Community College District shall be free from District censorship and discipline when speaking or writing. However, the special position of instructors imposes special obligations. Instructors as representatives of the District should be accurate, objective, exercise appropriate restraint, encourage a spirit of mutual respect for the opinion of others, and ensure the relevancy of subject matter to their instructional areas.

Teaching Controversial Subjects

Citizens in a free society in order to discharge their responsibilities fully and intelligently must examine, with critical judgment, all points of view regarding major issues of their day and nation.

A. Objectivity: Instructors shall maintain an attitude of objectivity on controversial topics when discussing them with students.

B. Respect for Others: Instructors shall encourage a spirit of mutual respect for honest and informed opinions, regardless of how divergent they may be.

C. Relevant Data: Instructors shall become fully informed about the various viewpoints on problems relevant to their instructional assignments and present pertinent and objective data to their students.

D. Suitable Learning Materials: Instructors and librarians shall make available a variety of suitable learning materials from which students may obtain valid data dealing with the pros and cons of issues being studied.

E. Time Consideration: A reasonable allocation of time shall be devoted to the study of any single issue, in accordance with the approved course outline and student needs.
EQUAL EDUCATIONAL AND EMPLOYMENT OPPORTUNITY

Ohlone College maintains an atmosphere that is welcoming to all students and conducive to their academic and personal success. The College provides an environment free of all forms of harassment, in which all students and employees are treated with dignity and respect.

Ohlone College is committed to equal opportunity in educational programs, employment, and campus life. The College does not discriminate on the basis of age, ancestry, color, disability, gender, marital status, national origin, parental status, race, religion, sexual orientation, or veteran status in any access to and treatment in College programs, activities, and application for employment.

Equal educational opportunity includes, but is not limited to, admission, recruitment, extracurricular programs and activities, facilities, access to course offerings, counseling and testing, financial assistance, employment, physical education, and athletics. Equal employment opportunity includes, but is not limited to, providing and safeguarding the opportunity for all persons to seek, obtain, and hold employment and qualify for advancement in the District without discrimination.

Ohlone College is committed to non-discrimination in compliance with the Civil Rights Act; Title IX of the Education Amendments of 1972; the Rehabilitation Act of 1973 (Sections 503 and 504); the Americans with Disabilities Act of 1990; Executive Orders 11246 and 11375; the Vietnam Era Veterans Readjustment Act of 1974; the Age Discrimination in Employment Act of 1967; and non-discrimination laws of the State of California.

Ohlone College is committed to the civil rights responsibilities spelled out in The Guidelines for Eliminating Discrimination and Denial of Services on the Basis of Race, Color, National Origin, Sex and Handicap in Education Programs, spelled out in Title VI of the Civil Rights Act. As such, the lack of English language skills will not be a barrier to admission and participation in vocational educational programs at Ohlone College.

Inquiries regarding equal opportunity and non-discrimination may be made as follows:

Staff inquiries to:
Dean, Human Resources and Training
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6088

Student inquiries to:
Vice President, Student Development
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6262

Inquiries related to Title IX and Title IX compliance may be made as follows:

Staff inquiries to:
Dean, Human Resources and Training
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6088

Student inquiries to:
Vice President, Academic Affairs/Deputy Superintendent
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6220

Spanish, Chinese, Vietnamese, and Farsi versions of the Equal Educational and Employment Opportunity Policy are available in the Office of Admissions and Records at (510) 659-6100.

POLICIES AND PROCEDURES, STUDENT LIFE

Copies of policies and procedures which relate specifically to student life are available from a distribution rack in Building 1, first floor and from the offices of Campus Activities and the Vice President, Student Development in Building 1, first floor.

Such policies and procedures include the following:
- Academic Dishonesty Policy
- Civil Rights Complaint
- Equal Educational and Employment Opportunity
- General Complaint Procedures
- Section 504/ADA Complaint
- Sexual Harassment Policy
- Standards of Student Conduct and Discipline and Due Process Procedures
- Title IX Complaint Procedures

Following are summaries and information from policies which relate to student life. Students are advised to read carefully the Catalog and Class Schedule for information about policies and procedures and to obtain full copies of the documents which may relate to their concerns.

Spanish, Chinese, Vietnamese, and Farsi versions of the Complaint Procedures, Equal Educational and Employment Opportunity Policy, financial aid information, and descriptions of vocational education programs are available in the Office of Admissions and Records at (510) 659-6100.
STUDENT ACCESS TO RECORDS

Any student may request to review the contents of his or her academic file by completing a form in the Office of Admissions and Records during normal window hours. Any student may challenge the contents and accuracy of the records by requesting, in writing, a review of the records with the Registrar or with the Vice President, Student Development. All such requests for review will be honored within fifteen working days.

Students do not have access to:

- Information provided by a student’s parents relating to applications for financial aid or scholarships;
- Physicians’, psychiatrists’, or psychologists’ reports;
- Information maintained by Campus Security;
- Instructors’ personal records regarding a student.

ACADEMIC DISHONESTY AND ITS CONSEQUENCES

Students at Ohlone College are expected to pursue their course work with integrity and honesty. Academic dishonesty occurs when a student attempts to show possession of a level of knowledge or skill which he or she does not possess. The two most common kinds of academic dishonesty are cheating and plagiarism. Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of dishonest, deceptive, or fraudulent means. Plagiarism is when students represent the work of someone else as their own and submit it to fulfill academic requirements. Students are responsible for knowing what constitutes academic dishonesty and for consulting with instructors about questions or concerns. Copies of the Policy on Academic Dishonesty are available from the information rack in Building 1 and from the Vice President, Student Development.

COMPLAINT PROCEDURES

Students may file a complaint when they believe that a College faculty or staff member has violated College rules, policies, or procedures, or other local, state, or federal laws including the Civil Rights Act; Title IX of the Education Amendments of 1972; the Rehabilitation Act of 1973 (Sections 503 and 504); the Americans with Disabilities Act of 1990; Executive Orders 11246 and 11375; the Vietnam Era Veterans Readjustment Act of 1974; the Age Discrimination and Employment Act of 1967; and the nondiscrimination laws of the State of California. The following is a list of types of complaints considered under these procedures.

Academic Complaint

An academic complaint may be filed with a Division Dean when a student feels that a faculty member has violated state law, federal law, or College policies and procedures relative to grading or other academic matters.

All grades awarded by the instructor of record shall be final. The California State Education Code §55760 permits a complaint to be filed with respect to grading only in situations where a grade was assigned due to “mistake, fraud, bad faith, or incompetence.”

General Student Complaint

A general student complaint may be filed by a student who feels an action of a College staff member, office, or group violates existing College rules, policy, or procedures or other local, state, and federal laws. A complaint of discrimination, ADA compliance, or sexual harassment is not included in this category.

The Complaint Procedures are formalized procedures to ensure timely resolution at the lowest possible level. The first step is the informal resolution stage which involves the student who has a complaint and the staff member or specific group with whom the student has a complaint. The student must notify the staff person or representative of a group that s/he wishes to make an appointment for an informal meeting to review an action within ten (10) days of its occurrence. In the absence of the instructor or staff person and after a good faith effort to make contact, the student may directly contact the Division Dean. Additional information is available from the Vice President, Student Development.

Title IX Complaint

These procedures are used when a complaint concerns discrimination on the basis of sex, including sexual harassment. The procedures are available from the information rack in Building 1, first floor and from the Vice President, Academic Affairs/Deputy Superintendent, who serves as compliance officer for student matters regarding Title IX regulations.

Section 504/ADA Complaint

These procedures are used when a complaint concerns matters pertaining to compliance with the Americans with Disabilities Act (ADA) and discrimination on the basis of a disabling condition. The procedures are available from the information rack in Building 1, first floor and from the Vice President, Student Development. The Vice President, Administrative Services/Deputy Superintendent serves as compliance officer for student matters concerning ADA regulations.

Civil Rights Complaints

These procedures are used when a complaint concerns matters of discrimination or failure to comply with College policy or procedures or federal and/or state regulations including the Civil Rights Act; Title IX of the Education Amendments of 1972; the Rehabilitation Act of 1973 (Sections 503 and 504); the Americans with Disabilities Act of 1990; Executive Orders 11246 and 11375; the Vietnam Era Veterans Readjustment Act of 1974; the Age Discrimination and Employment Act of 1967; and the nondiscrimination laws of the State of California. The procedures are available from the information rack in Building 1 and from the Vice President, Student Development. The Vice President, Academic Affairs/Deputy Superintendent serves as the compliance officer of all the above except ADA and Rehabilitation Act of 1973 complaints. The Vice President, Administrative Services serves as the compliance officer for ADA and Rehabilitation Act of 1973 complaints.

Students wishing to pursue a civil rights complaint beyond the college level should direct their inquiries to the Office of Civil Rights, United States Department of Education, 50 United Nations Plaza, Room 239, San Francisco, CA 94102.

SEX DISCRIMINATION AND SEXUAL HARASSMENT

It is the policy of the Ohlone Community College District to provide an educational, employment, and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment and/or sex discrimination as defined and otherwise prohibited by federal and state law. Engaging in sexual harassment and/or sex discrimination within the College environment and during any off campus College sponsored activities is unacceptable and shall be a violation of this policy. Sanctions shall be taken against any student, employee, or non employee conducting business with the District who engages in sexual harassment and/or sex discrimination.

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Definition of Sexual Harassment
Sexual harassment is defined as unwelcome sexual advances, request for sexual favors, or other verbal or physical conduct of a sexual nature that:
- is made either explicitly or implicitly a term or condition of an individual’s educational status or employment;
- is used as a basis for educational or employment decisions affecting such individual;
- has the purpose or the effect of unreasonably interfering with an individual's educational or work performance or which creates an intimidating, hostile, or offensive educational or work environment.

Definition of Sex Discrimination
Sexual discrimination is defined as the differential treatment on the basis of sex in employment, educational programs, and activities. Examples of sexual discrimination in the treatment of students include, but are not limited to, admissions; access to programs and facilities; educational programs; physical education; competitive athletics; regulations, and benefits; treatment of married and/or pregnant students' financial assistance; extracurricular activities; or comments consistently targeted at one gender.

COMPLAINT PROCESS
Ohlone College encourages prompt reporting of complaints so that rapid response and appropriate action may be taken. Information on the process, timelines, and forms to make an informal or formal complaint is available from the office of the Vice President, Student Development located in Building 1 or by calling (510) 659-6262.

ALCOHOL AND DRUG ABUSE POLICIES
In accordance with Public Law 101-226 "Drug Free Schools and Communities Act Amendment of 1989," the Board of Trustees of the Ohlone Community College District prohibits the unlawful possession, use, or distribution of illicit drugs and alcohol by any person on District property.

Any student or employee in violation of this policy is subject to disciplinary action up to, and including, expulsion from the College or termination from employment. The decision to take disciplinary action in any instance rests with the Board of Trustees after consideration of the recommendation of the President/Supervisor of the Ohlone Community College District.

The possession, use, and sale of alcoholic beverages by anyone on the Ohlone Community College District-controlled property is a misdemeanor as per California Business Code 25608 (community college) and a violation of the Standards of Student Conduct. The use, sale, or possession of any illegal drug is a violation of state law and any person found in violation may be subject to arrest by federal, state, local, or campus security authorities. Criminal prosecution is separate from any administrative discipline that may be imposed by the Ohlone Community College District.

Questions and suggestions regarding Campus Safety and Security may be directed to the Chief of Campus Police Safety/Security at (510) 659-6111.

SMOKING POLICY
Effective June 1, 2004, Ohlone College is a designated smoke-free college. Smoking is prohibited in all College vehicles, buildings, indoor and outdoor facilities, handicapped parking, and all open areas, except for general use parking lots. Violators shall be subject to appropriate disciplinary action that may include participating in a smoking cessation Internet presentation and counseling by the Student Health Center. Questions regarding this policy shall be directed to the Campus Safety Committee or Campus Security at (510) 659-6111. This policy supersedes any previous Ohlone College smoking policy.

STANDARDS OF STUDENT CONDUCT AND DISCIPLINE AND DUE PROCESS PROCEDURES

In joining the academic community at Ohlone College students have the right and share the responsibility to exercise the freedom to learn. Like other members of the academic community, students are expected to conduct themselves in accordance with standards of the College that are designed to perpetuate its educational, educational purposes. These procedures are in accordance with California Education Code Section 66300, which requires each community college district to adopt standards of student conduct along with applicable penalties for violation.

A. Students shall respect and obey civil and criminal law, and may be referred to law enforcement authorities for violation of laws of the city, county, state, and nation.

B. A charge of misconduct may be imposed upon a student for violating provisions of Ohlone College regulations and the State Education and Administrative Codes as related to College attendance or while on College-owned or College-controlled property or at a College-sponsored activity (Education Code 76034). Examples of “cause” with respect to charges of misconduct are noted in Education Code Section 76033; authority for adoption of rules and regulations is noted in Section 76932. Violations of such codes and regulations, for which students are subject to disciplinary action, include, but are not limited to, the following:

1. Dishonesty, such as cheating, plagiarism, or knowingly furnishing false information to the College;
2. Forgery, alteration, or misuse of College documents, records, or identification;
3. Obstruction or disruption of instruction, administrative processes, College activities, or other authorized College activities;
4. Disrupting the peace or quiet of any part of the campus or of a member of the academic community by unauthorized loud or unusual noises; by threatening conduct such as verbal abuse, quarreling, or challenging to fight; or by fighting;
5. Continued disruptive behavior; continued willful disobedience; habitual profanity or vulgarity; or the open and persistent defiance of the authority of College personnel or persistent abuse of College personnel;
6. Assault, battery, sexual assault, or other threat of force or violence upon a student or College personnel;
7. Stalking or any form of harassment of a member of the College community or visitor. Such conduct is defined as that which would cause a reasonable person to be severely distressed or fearful of physical harm.
8. Willful misconduct which results in injury or death to a student or College personnel; or which results in cutting, defacing, or other injury to any real or personal property owned by the District;
9. Theft or damage to property belonging to the College, a member of the College community, or a campus visitor; any computer-related crime as identified by the California Penal Code (502[e][3]);
10. Unauthorized entry to and/or use of College property;
11. The use, sale, or possession on campus of or presence on campus under the influence of alcohol, narcotics, other hallucinogenic drugs or substances, or any poison classified as such by Schedule D in Section 4160 of the Business and Professions Code;

12. Willful or persistent smoking or other tobacco use in any area where smoking or tobacco use have been prohibited by law or by regulation of the governing board;

13. Gambling on College property or College-controlled property;

14. Violation of College policies or campus regulations concerning the registration of student organizations; the use of College facilities; or the time, place, and manner of public expression;

15. Failure to comply with lawful directions of College officials acting in performance of their duties;

16. Possession or use of explosives, dangerous chemicals, or deadly weapons on College property or at a College function without prior authorization of the College President;

17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.

**Disciplinary Action**

1. Disciplinary action may be taken as a result of student misconduct. Type of action shall be determined by the appropriate College official(s) directly and/or with recommendation of the Student Conduct Board. Penalties are listed in the degree of severity, but not in chronological administration.

a. **Warning:** Notice to student, oral or in writing, that continuation or repetition of wrongful conduct may be cause for additional disciplinary action.

b. **Reprimand:** Written statement of violation of a specified regulation including the possibility of more extreme disciplinary action.

c. **Disciplinary Probation:** Exclusion from participation in privileges or extracurricular College activities set forth in the written notice of disciplinary probation for a specified period of time.

d. **Summary Suspension:** A summary suspension is for purposes of investigation. It is a means of relieving the tension of the student body or individual class due to an alleged infraction of student conduct standards, removing a threat to the well-being of the students, or removing for the good order of the College a student or students whose presence would prevent the continued normal conduct of the academic community, protection of property, and of the educational process.

e. **Disciplinary Suspension:** Exclusion from classes and other privileges or activities as set forth in the notice of suspension for a definite period of time. May include exclusion from campus.

f. **Expulsion:** Termination of student status for an indefinite period. The conditions of readmission, if readmission is permitted, shall be stated in the order of expulsion.

2. Any student suspended (disciplinary) or expelled who has violated Section 245 of the Penal Code (assault) must be reported to law enforcement authorities as stated in Education Code Section 76035.

3. Disciplinary actions are not recorded with a student’s academic record. Disciplinary suspension and expulsion are recorded in the office of the Vice President, Student Development, until date of removal of the disciplinary status.

4. Discipline policies (informal and formal) and Due Process Procedures are stated in the full policy and procedures document regarding student conduct.

**STUDENT RIGHT-TO-KNOW**

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

The completion rate is the percentage of students in the cohort who earned a degree or certificate, or could be considered transferable to a four-year institution (completed 56 or more transferable units with at least a 2.0 GPA). The transfer rate is the percentage of students in the cohort who have been identified as having transferred to another California Community College (CCC) or a four-year institution, but did not meet the criteria above to be classified as a completer.

The tables below present the SRTK rates for Ohlone College and statewide since 1998.

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It should be noted that the cohort used for STRK represents a very small proportion of the students at Ohlone College. Many students attend Ohlone with goals other than earning a degree or certificate or preparing to transfer to a four-year institution. In addition, the majority of Ohlone students attend on a part-time basis, thus excluding them from the STRK cohort.

**AUTHORITY FOR LAW ENFORCEMENT**

Campus Police Officers are granted authority to act as Police Officers by 830.32(a) of the Penal Code and 72330 of the Education Code. Campus Security Officers act as non-sworn officers only and do not have police powers. They take crime reports and reports of minor auto accidents, write parking citations, patrol the campus (on foot and in vehicles), and observe and report any unusual conditions or circumstances.

All officers working on campus (sworn and non-sworn) are required by law to attend the 832.2 P.C. School Peace Officers course or School Security Guard Course as required by the Peace Officer Standards and Training and the Department of Consumer Affairs.

Sufficient equipment, along with Post-trained and non-Post-trained personnel, shall be maintained to accomplish Campus Police Services’ assigned responsibility of seven-day-a-week coverage of facilities owned, operated, or under the control of the Ohlone Community College District.

**Crime Prevention and Safety Education**

Campus Police Services distributes crime prevention material to the campus community. They make inspections of facilities to insure physical security; design and present programs to reduce risk from criminal acts; review plans and new construction additions to facilities to insure against design defects that could contribute to criminal acts; make preventative patrols of grounds; make necessary arrests and detentions; and interact with all other law enforcement and investigative agencies.
Crime prevention and safety brochures such as Preventing Sexual Assault, Escort Service, Earthquake Procedures, and Parking Rules and Regulations include safety tips and are provided by Campus Police Services. Material includes how to call Campus Police for emergencies and how to report crimes. These brochures are available to students upon request during registration for Fall and Spring Semesters and Summer Session and are available at various locations on campus. A rape awareness program is held at least once a year for both staff and students.

**Reporting and Response Systems for Campus Police Services**

The Procedures Manual contains the rules and regulations that govern the conduct of Campus Police Services personnel and enforcement procedure of the Ohlone Community College District. It is the responsibility of the Chief of Campus Police Services to maintain the Procedures Manual and communicate additions and deletions to employees.

An operational Memorandum of Understanding with the Fremont Police Department – which includes records, patrol, investigative, communications, and incarceration support – is maintained at the Campus Police Services Office. Fremont Police will be called for assistance in any instance where a major crime has been committed or for an auto accident in which there are visible injuries or complaint of pain where a party is transported to the hospital via ambulance.

**Security of Facilities**

Unauthorized persons are not allowed into buildings that are secured for evenings, weekends, and holidays. If an individual needs to gain entry into a building Campus Police Services personnel must first check that person's identification (unless the person is known). An entry is then made in the activity log stating the building, time, date, and name of the person allowed into the building. Campus Police Services has the authority to request Facilities staff to respond to situations that present a threat to the public safety and/or liability of the District.

**Parking Policies**

All parking rules are enforced during instructional periods and on weekends when special events or classes are being held. Most parking lots are open to students, visitors, and guests with the exception of parking lots A and B (except after 5:00pm); C (except for staff stalls); Q, T, and W. See the Ohlone College campus map for disabled parking locations; these are indicated with an asterisk (*).

Parking vending machines are available in lots C, D, H, M, and P for visitors, guests, and students to purchase daily parking permits. Parking meters are located in lots M and N. These parking stalls are used by visitors, guests, and students for up to one-hour parking. Daily and semester permits are not valid in metered parking. Students who do not have a semester parking permit must purchase a daily parking permit. Semester parking permits are not valid in lots M, N, or O.

Disabled persons displaying either State of California license plates issued for disabled parking purposes or permits obtained from Ohlone College’s Disabled Student Programs and Services may park in spaces reserved for the disabled. These spaces are marked with the standard blue painted disabled insignia. In addition to the disabled placard, an Ohlone College semester or daily permit must also be displayed. Disabled parking permits are available in the Disabled Student Programs and Services Office, (510) 659-6140, located in Building S, first floor.

**Parking Rules**

1. Cars must park in marked stalls only, not on roadways, paths, etc.
2. Vehicles must be parked front bumper to front bumper. Do not back into stalls.
3. Motorcycles must be parked in the reserved motorcycle area in Lot W. Motorcycles and bicycles are prohibited on campus walkways and in buildings.
4. Vehicles parked in permit only zones without the necessary permit are subject to citation or storage (towing).
5. Yellow loading zones are for use by vendors and staff who must deliver bulky items. These zones are restricted to 15 minute parking.
6. Government vehicles engaged in required duties may park in all areas except fire lanes and disabled lots.
7. The use of skateboards and similar devices are prohibited on campus.
8. Driving is permitted on paved roads only.
9. The Fremont campus is closed from 11:00pm-5:00am.

All California Vehicle Code Laws apply on the Ohlone College campus, along with the following rules set by the Ohlone Community College District Board of Trustees:

1. The maximum speed limit is 25 m.p.h. on roadways and 15 m.p.h. in parking lots.
2. All traffic collisions must be reported.
3. Current registration and driver's license are required of all vehicle operators on campus.
4. No privately owned vehicles shall be washed, repaired, or stored on College property.
5. Alcoholic beverages are not permitted on campus.
6. Suspicious persons, incidents, or thefts should be reported directly to Campus Safety and Security at extension 6111 on campus or (510) 659-6111 if using a non-campus phone.

If a parking vending machine is broken, Campus Police Services should be notified immediately at (510) 659-6111 in order for the broken machine to be repaired.

Vehicles are not allowed on bus zones Key C and Key D. Persons may park in Key A and Key B to drop off or pick up passengers, as long as the driver does not leave the vehicle unattended.

There are emergency phones located outside on the second floors of Buildings 2, 4, 6, and 8 that directly connect to Campus Police Services. All campus payphones can be used at no charge to call Campus Police Services by dialing *81. Phones in the campus elevators also call Campus Police Services directly. Campus Police Services has a 24-hour hotline recording (510) 979-7997 which may be used to report crime or suspicious events.

For more information contact Campus Police Services in Building 20 or call (510) 659-6111 or go to the Campus Police Services Web site at http://www.ohlone.edu/org/security/.
CHAPTER 11  DISTRICT PERSONNEL

Douglas Treadway
President/Superintendent

James Wright
Vice President, Academic Affairs/Deputy Superintendent

Michael Calegari
Vice President, Administrative Services

Ron Travenick
Vice President, Student Development

Ralph Kindred
Associate Vice President, Information Technology

Leta Stagnaro
Associate Vice President, Newark Center for Health Sciences and Technology
**ADMINISTRATION**

- Walter Birkedahl  
  Dean, Fine Arts, Business, and Broadcasting
- Michael Bowman  
  Dean, Institutional Research and Curriculum
- Martha Brown  
  Dean, Counseling
- Michael Calegari  
  Vice President, Administrative Services
- Lyle Engeldinger  
  Dean, Human Resources and Training
- Ralph Kindred  
  Associate Vice President, Information Technology
- Joseph McLaughlin  
  Dean, Science, Technology and Academic Affairs
- Ronald Quinta  
  Dean, Business Services
- Joanne Schultz  
  Dean, Humanities, Social Sciences, and Mathematics
- Leta Stagnaro  
  Associate Vice President, Newark Center for Health Sciences and Technology
- Ron Travenick  
  Vice President, Student Development
- Douglas Treadway  
  President/Superintendent
- James Wright  
  Vice President, Academic Affairs/Deputy Superintendent
- Vacant  
  Dean, Health Sciences and Academic Affairs
- Vacant  
  Dean, Learning Resources and Academic Technology

**BOARD OF TRUSTEES**

- Robert Brunton
- Bill McMillin
- Nick Nardolillo
- Trisha Tahnmasbi
- Richard Watters
- John Weed
- Garrett Yee
- Ken Steedman

**MANAGEMENT**

- Simon Barros  
  Director, Facilities
- Patrice Birkedahl  
  Director, College Advancement
- Christopher Booras  
  Director, Theatre Operations
- Ann Burdett  
  Interim Coordinator, Disabled Students Programs and Services
- Robert Docherman  
  Director, Radio Operations
- Elva Duval  
  Senior Human Resources Specialist
- Ramona Farley  
  Bookstore Manager
- Manmohan Gill  
  Custodial/Grounds Supervisor
- Kelly Green  
  Bio Tech Program Coordinator
- Deborah Griffin  
  Director, Financial Aid
- Les Hedman  
  Director, Information Services
- Donna Ireland  
  Executive Assistant to the Associate Vice President, Information Technology
- Kathleen Johnson  
  Senior Human Resources Specialist
- Jason Jones  
  Community Education Program Coordinator
- Gary Kauf  
  Director, Television Operations
- Barbara Marcum  
  Senior Human Resources Specialist
- Bettina Miller  
  Manager, Human Resources
- David Orías  
  Interim Assistant Director, Facilities
- Steven Osawa  
  Chief, Safety and Security
- Sharon Quintana  
  Lead Senior Human Resources Specialist
- Kimberly Robbie  
  Registrar
- Mark Robbins  
  Director, Purchasing, Contract Administration, and Auxiliary Services
- Jill Rojas  
  Executive Assistant to the Vice President, Student Development
- Marlene Rose  
  Duplicating Services Supervisor
- Josephina Sette  
  Project Manager, Beta Grant
- Dave Smith  
  Executive Director, Ohlone College Foundation
- Pam Snedigar  
  Gallaudet Regional Director
- Anuradha Suresh  
  WIB Program Training Coordinator
- Connie Teshara  
  Executive Assistant to the Vice President, Academic Affairs/Deputy Superintendent
- Debra Trigg  
  Director, Campus Activities and Extended Opportunity Programs and Services
- Jeffry Villano  
  Manager, Customer and Lab Support
- Edward West  
  Director, International Programs and Services
- Kelly Wilmeth  
  Interpreting/Accommodation Services Supervisor
- Sarah Zentner  
  Assistant to the President/Superintendent
- Joe Zemerno  
  Beta Grant Bus/Industry Liaison
- Vacant  
  Athletic Director
- Vacant  
  Director, One Stop Career Center

**EMERITUS OHLONE COLLEGE PERSONNEL**

- Alexander, Norma (1975-1992)  
  Professor, Mathematics
  Instructional Assistant, Typing
  Bookstore Manager
- Archer, Dan (1979-2007)  
  Board of Trustees
- Barber, Iola (1974-1995)  
  Professor, Biology
- Bartlett, Donna J. (1975-2002)  
  Program Specialist
- Bell, Clayton J. (1968-2000)  
  Professor, Counseling
- Bischer, Dolores E. (1972-2002)  
  Instructional Assistant, Reading Lab
  Director General Services/Purchasing
  Director of Library Services
- Blomerley, Peter (1979-1994)  
  Professor, President/Superintendent
  Professor, Psychology
  Warehousekeeper
- Brenner, Sally A. (1975-2001)  
  Professor, Medical Office Assistant
- Briggs, Robert L. (1976-2001)  
  Professor, Drafting, Dean, Occupational Education and Grants
  Professor, Dean, Deaf Studies and Special Services
- Burri, Barbara M. (1985-1996)  
  Professor, Early Childhood Studies
  Chief, Safety/Security Officer
  Interim Division Dean
  Professor, Consumer & Family Sciences
  Professor, History
  Professor, French and German
- Croghan, Jack (1975-1994)  
  Professor, Physical Education
  Associate Professor, English/Writing Lab
  Professor, Spanish
  Executive Assistant to the President/Superintendent
- dela Cruz, Juan (1975-2006)  
  Custodian
  Senior Office Assistant
Klent, Jim (1967-2005)
Kennedy, Eileen (1993-1997)
Kelly, Frances J. (1977-1997)
Kelly, Frances J. (1977-1997)
Kennedy, Eileen (1993-1997)
Klest, Jim (1967-2005)
Kruppenbacher, Judith E. (1969-2001) 
Landavazo, James A (1974-2006) 
Leclercq-Rotar, Joan (1967-2000) 
Maloney, John (1971-2000) 
Moeller, Patricia (1973-1993) 
Morrison, Margaret S. (1972-2000) 
Nagel, Sheldon (1968-1997) 
Nakasko, F. Frank (1968-1988) 
Pavel, Marlys J. (1967-2001) 
Peck, Adam (1999-2005) 
Penso, Kiyoko (1979-2002) 
Reid, Gloria (1986-2005) 
Richter, William B. (1968-1979) 
Roby, Dennis (1977-2004) 
Rosenbaum, Karen (1967-2001) 
Sanchez, Maria L. (1984-2000) 
Seiden, Robert M. (1968-2001) 
Smith, Gary Soren (1967-1993) 
Smith, Ollie M. (1975-2000) 
Soracco, Carla (1978-1995) 
Stillman, Barton G. (1968-1994) 
Stocking, Arlene V. (1974-1992) 
Sturhahn-Urband, Lynne (1986-1999) 
Tansley, Kathleen H. (1986-1997) 
Waters, Verle (1975-1990) 
White, George (1976-2006) 
White, Jean (1986-2002) 
Willis, Debra L. (1981-1996) 
Wong, L. Don (1967-1982) 

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2007-2008 OHLONE COLLEGE CATALOG
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Roberts, Tim
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Rogers, Joan
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A.S., Finger Lakes Community College; B.A., St. Mary's
College; M.A., Santa Clara University

Runyon, Donna
Associate Professor, Physical Education, Women’s Softball
Coach
B.S., Lock Haven State University; M.A., Saint Mary’s
College of California

Schoenecker, Paula
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B.S., M.S., California State University, Hayward

Scofield, Sally
Assistant Professor, Medical/Surgical Nursing
B.S., University of San Tomas, Philippines; M.S.,
San Francisco State University

Segreaves, Margery
Associate Professor, Computer Networking and Emerging
Technology
B.S., Humboldt State University; M.S., California
Polytechnic State University, San Luis Obispo; M.S.,
California State University, Hayward
Sherman, Rachel
Assistant Professor, English
B.A., M.F.A., Mills College

Singh, Vajinder
Professor, Electronics
B.S., M.S., Punjab University, India; M.S., Kansas State University

Smedley, Robert
Associate Professor, Mathematics
B.S., State University of New York at Stony Brook; M.S., Stanford University; M.S., California State University, Hayward

Sparling, Katherine
Associate Professor, Systems and Technical Services
A.A., L.L.S., University of California, Berkeley

Stacey, Mikelyn
Associate Professor; Dean, Humanities, Social Sciences, and Mathematics
B.A., M.Ed., University of Arizona

Stagnaro, Leta B.
Professor, Associate Vice President, Newark Center for Health Sciences and Technology
B.S., M.S., California State University, Hayward; M.B.A., University of Phoenix

Stiles, Kim
Assistant Professor, Nursing
A.A.S., State University of New York; B.S.N., Excelsior College; M.S.N.; The College of New Rochelle

Strickler, Carolyn M.
Professor, Business Administration
B.A., M.A., San Francisco State University

Suresh, Anyr adha
Assistant Professor, WIB Program Training Coordinator
B.S., Madras University, India; M.A., Delhi University, India; M.S., California State University, Hayward

Swamy, Rakesh
Assistant Professor, English
B.A., Brigham Young University; M.S., California State University, Hayward

Takakuwa, Wayne
Associate Professor, Counselor
B.A., City College of New York; M.S.W., Hunter College

Tamburello, Marilena
Assistant Professor, Educational Technologist
B.A., University of Palermo, Italy; M.A., University of Washington; M.S., San Francisco State University

Tasker, Terri
Professor, Learning Disabilities Counselor
B.A., St. Lawrence University; M.A., California Polytechnic State University, San Luis Obispo

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Assistant Professor, Dance
A.A., San Jose City College; B.A., San Jose State University

Topham, David
Assistant Professor, Computer Science
B.A., California State University, Hayward; M.A., Santa Clara University

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Ban, Trang
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Office of Financial Aid; Office of Admissions and Records

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Department Systems Analyst
Business Services

Burdett, Reginald
Staff Interpreter II
Division of Deaf Studies and Special Services

Calvert, Shirley
Workforce Development Specialist
One-Stop Career Center

Cardenas, Victor
DSPS Instructional Assistant
Division of Deaf Studies and Special Services

Chan, Darlene
Staff Interpreter II
Division of Deaf Studies and Special Services

Chen, Guang-Wen (Kevin)
Systems and Applications Administrator
Information Technology

Chevalier, Jolie
Student Services Assistant
Office of Admissions and Records

Chi, Ying-Chao
Accounting Technician IV
Business Services

Clark, Keith
Skilled Maintenance Mechanic Carpenter/Locksmith
Facilities

Clark, Monique
Staff Interpreter I
Division of Deaf Studies and Special Services

Cragan, Elliott
Staff Interpreter
Division of Deaf Studies and Special Services

Crisp, Liz
Desktop Support Services Technician II
Information Technology

Curtis, Bobbie Jo
Executive Assistant
Business Services

Damani, Arti
Accountant
Business Services

Dawson, Stewart
Security Officer II
Campus Police

Dempsey, James
Custodian
Facilities

Dickerman, Linda
Library Technician
Division of Learning Resources and Academic Technology
DISTRICT PERSONNEL

Dinh, Minh  
Financial Aid/Admissions and Records Communications  
Management Technician  
Office of Financial Aid

Dodson, Tina  
Program Coordinator, Case Manager  
One-Stop Career Center

Driver, Dennis  
Computer Lab Coordinator  
Information Technology

Duke, William  
Research and Systems Analyst  
Information Technology

Dulalia, Gerry  
Staff Interpreter  
Division of Deaf Studies and Special Services

Dutta, Pallabi  
Senior Office Assistant  
Entrepreneurial Programs

Elbe, Susan  
Student Services Assistant  
Office of Financial Aid

Erol, Leyla  
Regional Specialist  
Gallaudet University Regional Center

Espinoza, Richard  
Custodian  
Facilities

Evers, Linda  
Science Lab Coordinator  
Division of Science, Technology, and Academic Affairs

Feltrop, Bonnie  
Executive Assistant  
Division of Fine Arts, Business, and Broadcasting

Ferea, Larry  
Lead Gardener/Groundskeeper  
Facilities

Fernandes, Linda  
Registration Coordinator  
Office of Admissions and Records

Ferrantino-Belkin, Rachel  
Office Assistant  
Office of Admissions and Records

Fokken, Hartmut  
Computer Lab Technician II  
Information Technology

Fon, Frances  
Transfer Center Specialist  
Counseling Department

Fontanilla, Mary  
Instructional Assistant-Writing Lab  
Division of Humanities, Social Sciences, and Mathematics

Fresquez, Adam  
Theater Operations Technician  
Division of Fine Arts, Business, and Social Sciences

Gabriel, Jamilah  
Lead Library Technician/Circulation  
Division of Learning Resources and Academic Technology

Gallegos, Willie  
Custodian/Pool Maintenance  
Facilities

Garcia, Antonio  
Custodian  
Facilities

Garcia, Lidia  
Bookstore Textbook Coordinator  
Ohlone College Bookstore

Garza, Diana  
Capital Projects Coordinator  
Facilities

Gatherer, Sheridan  
Staff Interpreter I  
Division of Deaf Studies and Special Services

Gizycki, Gosia  
Marketing Coordinator  
College Relations

Goles, Debbie  
Gallaudet Outreach Specialist  
Gallaudet University Regional Center

Gomez, Juan  
Gardener/Groundskeeper II  
Facilities

Gong, Jasper  
Technical Coordinator  
Division of Fine Arts, Business, and Broadcasting

Gonzales, Renee  
Student Services Assistant  
Campus Activities

Gonzalez, Arnulfo  
Gardener/Groundskeeper II  
Facilities

Graf, Matthew  
Radio Station Technician  
Division of Fine Arts, Business, and Broadcasting

Granados-Thomas, Ingrid  
Instructional Assistant, English Learning Center  
Division of Humanities, Social Sciences, and Mathematics

Gray, Zane  
Warehousekeeper  
Facilities

Griffin, Harold  
Central Services Specialist  
Business Services

Hallwell, Raenette  
Bookstore Assistant  
Ohlone College Bookstore

Harchous, Thomas  
Maintenance Mechanic  
Facilities

Harrah, Cassandra  
Bookstore Assistant  
Ohlone College Bookstore

Hayden, Robert  
Computer Lab Tech I  
Information Technology

Hernandez, Anna  
Staff Interpreter I  
Division of Deaf Studies and Special Services

Hoagland, Carol  
Senior Office Assistant  
Campus Police

Hoang, Nam  
Senior Accountant, Accounts Receivable  
Business Services

Houle, Julie  
Educational Services Support II  
Scheduling Office

Hsu, Thomas  
Executive Assistant  
Ohlone College Foundation

Huang, Xi Cheng  
Custodian  
Facilities

Huang, Xi Jing  
Custodian  
Facilities

Hudiono, Chandranata  
Learning Center Coordinator  
Division of Science, Technology, and Academic Affairs

Hunnicutt, Jerome  
Custodian  
Facilities

Hunter, Zelma  
Executive Assistant  
Division of Health Sciences and Academic Affairs

Huynh, Ai Nu  
Accounting Technician III  
Business Services

James, Etheridge  
Staff Interpreter I  
Division of Deaf Studies and Special Services

Jiang, Cuixia  
Accountant  
Human Resources

Johnson, Alvin  
Gardener/Groundskeeper II  
Facilities

Johnson, Susan  
Student Services Assistant  
Information Center

Johnson, Tim  
Staff Interpreter I  
Division of Deaf Studies and Special Services

Jones, Kara  
Staff Interpreter II  
Division of Deaf Studies and Special Services

Joseph, Gilbert  
Maintenance/Trades Mechanic  
Facilities

Keogh, James  
Security Officer II  
Campus Police

Kirchknopf, Amadeus  
Gardener/Groundskeeper II  
Facilities

Kirk, Kevin  
High Tech Center/Access Specialist  
Division of Deaf Studies and Special Services

Kong, Yu Hay  
Desktop Support Services Technician II  
Information Technology

Kong, Yu Pui  
Computer Lab Tech I  
Media Delivery  
Information Technology

Kuang, Wen  
Computer Lab Tech I  
Information Technology

Lambert, Cheryl  
Web Designer/Publisher  
College Relations

Lammers, Chrisey  
Accountant  
Human Resources

Lane, Ellen  
Senior Information Services Engineer  
Information Technology

Lane, Patrick  
IT Systems Technologist  
Information Technology

Lawrence, Edward  
Accounts Payable Accounting Technician IV  
Business Services

Photo courtesy of Julie Houle.
Lee, Kwei-Ying  
Information Services Engineer  
Information Technology

Li, John  
Accounting and Budget Coordinator  
Business Services

Lin, Weiyang  
Instructional Assistant, Tutoring and Student Technology  
Information Technology

Lo, David  
Senior Programmer Analyst  
Information Technology

Loeng, Arnie  
Television Operations Technician  
Division of Fine Arts, Business, and Broadcasting

López-Cepeda, Ana-Maria  
Executive Assistant  
Newark Center for Health Sciences and Technology

Love, Aundrea  
Staff Interpreter II  
Deaf Studies & Special Services

Luk, Joyce  
Biotechnology Lab Technician  
Division of Science, Technology, and Academic Affairs

Luk, Karen  
Student Services Assistant  
Testing Center

Ly, Hoan Doa  
Custodian  
Facilities

Ma, Ying  
Custodian  
Facilities

Magliao, Mario  
Custodian  
Facilities

Magnussen, Linda  
Library Technician  
Division of Humanities, Social Sciences, and Mathematics

Mamou, Narda  
Job Placement Specialist  
One-Stop Career Center

Marques, Sila  
Executive Assistant  
Division of Humanities, Social Sciences, and Mathematics  
Division of Science, Technology, and Academic Affairs

Martinez, Kathleen  
Executive Assistant  
Division of Humanities, Social Sciences, and Mathematics

Martinez, Michael  
Skilled Maintenance Mechanic/HVAC  
Facilities

Martinez, Rosemarie  
Senior Office Assistant  
Counseling Department

McCue, Kevin  
Instructional Assistant, Biology/Chemistry  
Division of Science, Technology, and Academic Affairs

McMahon, Susan  
Health Sciences Skills Lab Coordinator  
Division of Health Sciences and Academic Affairs

Medeiros, Sherri  
Accounting Technician III  
Business Services

Mendoza, Miguel  
Security Officer I  
Campus Police

Miller, Steven  
Maintenance/Energy Electrician  
Facilities

Moralez, Cariene  
Senior Office Assistant  
Campus Police

Morales, Carlene

Miller, Steven

Medeiros, Sherri

McMahon, Susan

McCue, Kevin

McMahon, Susan

Medeiros, Sherri

Mendoza, Miguel

Miller, Steven

Moralez, Cariene

Moreci, Steven  
Network Support Technician II  
Information Technology

Murphy, Gweneth  
Security Officer II  
Campus Police

Nacu, Roman  
Custodian  
Facilities

Navarrete, Danny  
WorkAbility III Employment Developer  
Division of Deaf Studies and Special Services

Nordquist, Kurt  
Skilled Maintenance Mechanic (HVAC)  
Facilities

Nguyen, Tuongyan  
Lab Technician/Chemistry  
Division of Science, Technology, and Academic Affairs

Ochoa, Raul  
Painter  
Facilities

Ong, Eileen  
Staff Captioner I  
Division of Deaf Studies and Special Services

Orr, William  
Lead Custodian  
Facilities

Ortega, Rebeca  
Library Assistant  
Division of Humanities, Social Sciences, and Mathematics

Ortiz, Robert  
Evaluation Specialist  
Office of Admissions and Records

Owen, Sue  
Executive Assistant/Interpreter  
Division of Deaf Studies and Special Services

Panales, David  
Bookstore Operations Coordinator  
Ohlone College Bookstore

Paoli, William  
Web Course Technician  
Information Technology

Parker, Jennifer  
Executive Assistant  
Facilities

Parker, Megan  
Executive Assistant  
Athletic Department

Payne, Donna  
Accountant  
Human Resources

Pearce, Sharon  
Professional Development Coordinator  
Early Childhood Studies

Peralta, Benedick  
Public Safety Officer  
Campus Police

Perez, Cynthia  
Staff Interpreter II  
Division of Deaf Studies and Special Services

Pintello, Stephanie  
Staff Interpreter II  
Division of Deaf Studies and Special Services

Quijas, Janet  
Senior Office Assistant  
Student Health Center

Richard, Josepha  
Custodian  
Facilities

Rodgers, April  
Staff Interpreter II  
Division of Deaf Studies and Special Services

Rollins, Delphyne  
Desktop Support Technician I  
Information Technology

Schurtz, David  
Automotive Service Technician  
Facilities

Serran, JoAnne  
Executive Assistant  
Division of Health Sciences and Academic Affairs

Sharma, Jaya  
Student Services Assistant  
Office of Admissions and Records; Counseling Department

Silva, Michael  
Security Officer II  
Campus Police

Smith, Antonio  
Administrative Secretary I  
One-Stop Career Center

Steffen, Susan  
Executive Assistant  
Counseling Department

Ta, Dangto  
Instructional Assistant, Math Lab  
Division of Humanities, Social Sciences, and Mathematics

Tafte, Gloria  
Career Center Case Manager  
One-Stop Career Center

Talib-Schoen, Shadia  
Job Developer  
One-Stop Career Center

Thornton, Stephen  
Network Support Tech II  
Information Technology

Triplett, Mike  
Customer Support Coordinator  
Information Technology

Viarrial, Sylvia Rose  
Student Services Assistant  
Office of Admissions and Records

Washington, Spencer  
Student Services Assistant  
Office of Financial Aid

Wheeler, Amanda  
Student Services Assistant  
Counseling Department

Whitehouse, Jacquelyn  
Music Library Technician/Graphics  
Division of Fine Arts, Business, and Broadcasting

Witmer, Lea  
Accounting Technician III  
Business Services

Wood, David  
Instructional Assistant, English  
Division of Humanities, Social Sciences, and Mathematics

Wright, Andrea  
Student Services Assistant  
Office of Financial Aid

Zale, Zouri  
Desktop Support Tech I  
Information Technology

Zeng, Yanni  
Bilingual Career Center Assistant  
One-Stop Career Center

Zale, Zouri  
Desktop Support Tech I  
Information Technology

2007-2008 OHLONE COLLEGE CATALOG
Academic Renewal: A means whereby a student may petition to have previous college work (grades and credits) excluded from current grade point average, if that work is over three years old and is not reflective of the student’s present level of ability or performance.

Academic Year: The regular terms of instruction – not including summer session – are fall and spring semesters.

Advanced Placement: A national testing program whereby high school students may earn college credit by examination.

Advisory: A condition of enrollment that a student is advised to meet before or in conjunction with enrollment in a course or educational program.

Articulation: An agreement where one university agrees to accept a community college course in lieu of a course at the university. Ohlone's articulation agreements with the CSU and UC campuses are available online at http://www.assist.org.

ASOC: Associated Students of Ohlone College. All Ohlone College students are members of ASOC and are represented by an elected and appointed student government called the ASOC Council.

Associate Degree: A degree awarded upon completion of a prescribed program of study in a major field at Ohlone College. The Associate of Arts (AA) and Associate of Science (AS) are degrees that may be earned at Ohlone College.

Associate Degree Applicable Courses: Courses are degree applicable unless identified in the College catalog and Class Schedule with the notation “Not applicable to associate degree.” Only degree applicable courses are included in calculation of the grade point average and can be applied towards degree, certificate, and General Education requirements.

Audit: An enrollment status in a class where no units or grades are awarded.

Baccalaureate: Refers to the bachelor’s degree usually achieved after four years of undergraduate college study. Ohlone College offers the first two years of baccalaureate work in many fields of study.

CAN (California Articulation Number): A statewide means of identifying similar courses for articulation among the community colleges and California State University campuses.

Certificate of Achievement: Indicates completion of a focused occupational program of study and training of 18 or more units.

Certificate of Completion: Indicates completion of a specific occupational program of study and training of less than 18 units, usually in one year.

Class Load: The number of units which a student takes in any given term. A full-time class load is twelve or more units. A standard class load is fifteen units.

Clear Standing: Indicates that a student’s grade point average in the previous semester and cumulative grade point average are C (2.0) or better.

Continuing Student: A student who was enrolled at Ohlone College during the most recent previous semester, not including Summer Term.

Corequisite: A condition of enrollment consisting of a course that a student is required to take at the same time as another course. For example: MUS-100 requires that students are enrolled in MUS-100L during the same semester.

Credit: A completed unit of study recorded on the student’s official college record.

Credit by Examination: A means of awarding college credit by assessing knowledge achieved elsewhere.
CSU: The California State University System. Of the twenty-three California State University campuses, the two closest to Ohlone College are Cal State East Bay and San José State University.

Curriculum (plural, curricula): Often called discipline, it includes all of the courses of study offered by Ohlone College. It may also refer to a particular course of study (major) and the courses in that area.

Dismissal: A status caused by low academic or progress performance. A dismissed student may not continue at Ohlone College without approval for reinstatement. See the catalog section on Academic Regulations for more information.

District: The area served by Ohlone College is the Ohlone Community College District. The District is the governing entity of the College.

Drop/Add: Revision of program of courses when students want to drop, change, or add a course or courses.

Elective: Any course not required for a major field or general education requirements.

Enrollment: Official recorded placement of a student in a class.

EOPS: Extended Opportunity Programs and Services. EOPS provides special support services, financial assistance, and educational programs to assist students who have experienced economic, educational, or social disadvantage.

Former student: A student who has attended Ohlone College at some time but did not enroll during the most recent previous semester.

Full time student: A student taking twelve or more units in the Fall or Spring semesters. During Summer Term, six units is considered full-time.

General Education Certification: Transfer courses certified by Ohlone College as meeting General Education requirements at campuses of the California State University or University of California. It may also refer to a subdivision of the academic year into two sessions, usually fall and spring, each lasting approximately sixteen weeks. To convert semester units to quarter units, multiply by 3/2. To convert quarter units to semester units, multiply by 2/3.

General Education Requirements: Required courses satisfying the breadth requirements of a liberal education expected of students who receive an associate degree.

G.P.A.: Grade Point Average. The G.P.A. is computed in the following manner. Students receive a certain number of points for each grade. Per unit an A grade is worth 4 points, a B worth 3, a C worth 2, D worth 1, and an F worth 0. The total number of points accumulated is then divided by the number of course units taken for a letter grade. The result is the grade point average. Credit (CR), No Credit (NC), Withdraw (W), Military Withdraw (MW), or Incomplete (I) grades are not computed in the grade point average. Current G.P.A. is for the most recent semester. Cumulative G.P.A. is for all college work to date. NOTE: Only associate degree applicable courses are included in calculation of the G.P.A.

Grant: Financial Aid funds that do not need to be repaid.

IGETC: Intersegmental General Education Transfer Curriculum (see page 44).

Learning Community: A group of 2-5 classes linked together with a common theme and a common group of students.

Major: Area or field of concentration for occupational certificate or associate degree.

Matriculation: A process that brings a college and a student who enrolls for credit to agreement for the purpose of realizing the student’s educational objective. On the college’s part, the agreement includes providing an admission process; an orientation to college programs, services, and procedures; pre enrollment placement and counseling for course selection; a suitable curriculum; continuous follow up of student progress; and a program of institutional research and evaluation.

Non-resident: A person who has not lived continuously in California for one full year and a day prior to enrollment and therefore does not meet residency requirements.

Part time student: Any student enrolled for less than twelve units of coursework in a regular semester.

Petition: A request, usually written on a standard form, to adjust a study list or curriculum to fit an individual situation and/or request exception to a policy or regulation.

Placement Test: A standardized test that may be used for placement of students in English and mathematics courses and skills prerequisite levels.

Prerequisite: A requirement that must be met before a certain course can be taken. For example, MATH-180 Pre-Calculus, must be taken before MATH-101A, Calculus.

Probation: An indication that performance is below standard because of academic or progress deficiencies; a trial period in which a student is permitted to redeem failing grades or deficient units.

Quarantine: A subdivision of the academic year consisting of four terms (fall, winter, spring, and summer quarters). To convert semester units to quarter units, multiply by 3/2. To convert quarter units to semester units, multiply by 2/3.

Registration: The process of providing necessary information and signing up for classes each semester.

Resident: A person who has resided in California for one full year and a day prior to enrollment and who meets other residency requirements.

Semester: A subdivision of the academic year into two sessions, usually fall and spring, each lasting approximately sixteen weeks. To convert semester units to quarter units, multiply by 3/2. To convert quarter units to semester units, multiply by 2/3.

Skills Prerequisite: A recommended condition for enrollment in a course or major. Skills prerequisites usually consist of a previous reading, writing, mathematics, or critical thinking course, or placement score that indicates(s) a chance for successful achievement by the student enrolling in the course.

Student Help: Students working at on campus jobs funded by Ohlone College are considered Student Help.

TBA: To Be Announced (TBA) is noted in the Class Schedule when the instructor, room, or time of a course was not known at the time of schedule printing.

Transcript: Official copy of a student’s academic record (courses and grades).

Transfer: Receiving credit at a CSU, UC, or private university for coursework completed at Ohlone.

Unit: Courses are assigned a unit value based on one unit of credit for every hour of lecture or 3 hours of laboratory time per week by the student. A students progress at the College is determined in part by the number of units completed.

UC: University of California. There are ten University of California campuses; the closest UC campus to Ohlone is UC Berkeley.

University Express: A cohort-based learning experience for transfer students designed to facilitate transfer to UC, CSU, and independent universities.

WebAdvisor: Web registration system for students to add and drop classes, pay fees, and check grades.

Work Experience Education: A program of college credit for work experience combined with college study.

Work Study: A program of federal aid that provides funds for student jobs on campus.
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