OHOLONE COLLEGE
A public two-year college of the Ohlone Community College District

A World of Cultures United in Learning

[Image of three graduates]
## TABLE OF CONTENTS

- Academic Calendar .................................................. 6
- Vision, Values, and Goals ........................................... 7

### Chapter One - Welcome to Ohlone
- Recent Highlights at Ohlone ...................................... 8
- Learning Communities ............................................... 9
- Accreditation ........................................................... 9
- The Community College System .................................. 9
- Important Facts about Ohlone ...................................... 9
- History of Ohlone ...................................................... 9
- The Ohlone Campuses ............................................... 9
- Learning Resources Center (LRC)/Library .................... 10
- Student Center ........................................................ 10
- Gary Soren Smith Center for the Fine and Performing Arts ............................................................................. 10
- Ohlone Network Television (ONTV) .............................. 10
- Radio Station KOHL .................................................. 10
- Morris and Alvirda Hyman Center for Business and Technology .......................................................... 11
- Ohlone College Center for Deaf Studies ....................... 11
- Gallaudet University Regional Center ......................... 11
- Fremont Campus Tours .............................................. 11
- Newark Area Campuses ............................................. 11
- Tri-Cities One-Stop Career Center .............................. 11
- Community Education ............................................. 12
- Study Abroad Program ............................................. 12
- Ohlone Community College District Board of Trustees .... 12
- Ohlone College Foundation ........................................ 12

### Chapter Two - Student Services
- Admissions and Records ........................................... 13
- Athletics ................................................................. 13
- Bookstore ............................................................... 13
- Campus Activities ................................................... 14
- Student Government ............................................... 14
- Student Ambassador Program .................................. 14
- Cafeteria and Vending Services ................................. 14
- Housing ................................................................. 14
- Clubs and Organizations .......................................... 14
- Co-Curricular Activities .......................................... 15
Chapter Four - Fees and Refunds

Fees ......................................................... 26
  Enrollment Fee ........................................ 26
  Online Registration Access Fee ................. 26
  Student Activity Fee/Student ID Card .......... 26
  Health Services Fee .................................. 26
  Instructional Materials Fees ...................... 26
  Unpaid Financial Obligations ...................... 27
  Refunds .................................................... 27
  2006-2007 Fees .......................................... 27

Chapter Five - Academic Regulations

Academic Standing .................................... 28
  Honors ..................................................... 28
  Clear Standing ......................................... 28
  Probation ............................................... 28
  Subject to Dismissal ................................. 28
  Dismissal ................................................ 28
  Counseling/Academic Advising for Probationary Students ....................... 29
  Reinstatement ......................................... 29
  Disciplinary Dismissal from Class or the College ........................... 29
  Academic Renewal ..................................... 29
Chapter Six - Degree, Certificate, and Transfer Information

Steps in Choosing Your Ohlone College Academic Program...36
Associate of Arts and Associate of Science Degrees .............37
Associate Degree: Graduation Information ........................37
General Education ............................................................38
Certificate Programs.........................................................40
Transfer to Four-Year Institutions.......................................41
Intersegmental General Education Transfer Curriculum ......42
(IGETC)................................................................42
Transfer Programs ............................................................43
General Education: Plan A................................................44
General Education: Plan B................................................45
General Education: Plan C................................................46
Chapter Seven - Curriculum Guides
Associate Degree: General Majors ........................................49
Transfer Degrees ................................................................49
Associate Degrees and Certificates of Achievement ............56
Certificates of Completion .................................................71

Chapter Eight - Advisory Committees ..................................89

Chapter Nine - Announcement of Courses
How to Read Course Descriptions .....................................94
Course Requisites ..............................................................94
Accepted for Credit ...........................................................94
Course Grading Policy........................................................94
California Articulation Number .........................................95
Multi-Departmental Courses ............................................96
Academic Division Information .........................................96

Chapter Ten - Policies and Procedures
Equal Educational and Employment Opportunity ..............198
Policies and Procedures, Student Life ................................199
Student Access to Records ..............................................199
Academic Dishonesty and Its Consequences .....................199

Complaint Procedures ....................................................199
Sex Discrimination and Sexual Harassment .......................200
Complaint Process .........................................................200
Alcohol and Drug Abuse Policies .....................................200
Smoking Policy ...............................................................201
Standards of Student Conduct and Discipline and
Due Process Procedures ..................................................201
Student Right-to-Know ....................................................202
Authority for Law Enforcement ........................................202

Chapter Eleven - District Employees
Administration ................................................................205
Board of Trustees ..........................................................205
Management ................................................................205
Emeritus Faculty and Staff ..............................................205
Full-Time Faculty ...........................................................207
Classified Staff ..............................................................210

Glossary ........................................................................213
Index ..............................................................................219
Campus Map ....................................................................inside back cover
ACADEMIC CALENDAR 2006-2007

Fall Semester 2006

- August 28 ..................................Instruction begins
- September 1 ................................Deadline to add a semester-length class without instructor’s signature
- September 2 - 4 ..........................Holiday - Labor Day
- September 7 ...............................Deadline to drop a semester-length class with eligibility for an enrollment fee refund
- * September 10 .............................Deadline to add a semester-length class with instructor’s signature
- * September 10 .............................Deadline to drop a semester-length class without a W on permanent record
- September 22 .............................Deadline to apply for credit/no-credit grading
- October 5 ..................................Deadline to apply for Fall 2006 graduation or Certificate of Achievement
- November 10 ..............................Holiday - Veterans’ Day
- November 16 ..............................Deadline to withdraw from a semester-length class with a W
- November 23 - 26 .......................Holiday - Thanksgiving
- December 11 - 15 .......................Final Examinations
- December 16 - January 28 ..........Semester Break

* Admissions and Records office hours do not extend to cover weekends and/or holidays. Access during non-office times is available through WebAdvisor.

Spring Semester 2007

- January 15 ...............................Holiday - Martin Luther King’s Birthday
- January 29 ..................................Instruction begins
- February 2 ...............................Deadline to add a semester-length class without instructor’s signature
- February 9 ...............................Deadline to drop a semester-length class with eligibility for an enrollment fee refund
- February 9 ................................Deadline to add a semester-length class with instructor’s signature
- * February 11 .............................Deadline to drop a class without a W on permanent record
- February 16 - 19 ........................Deadline to apply for credit/no-credit grading
- March 9 .....................................Deadline to apply for Spring 2007 graduation or Certificate of Achievement
- March 26 - April 1 ........................Spring Break
- April 27 ....................................Deadline to withdraw from a semester-length class with a W
- May 21-25 .................................Final Examinations
- May 25 .....................................Commencement
- May 28 ....................................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.

Summer Semester 2007

- June 18 ...............................Instruction begins
- June 22 .................................Deadline to apply for Summer 2007 graduation or Certificate of Achievement
- July 4 .....................................Holiday – Independence Day
- July 26 ...................................Instruction ends

See Office of Admissions and Records for information regarding withdrawal deadlines for other than semester-length classes.
VISION, VALUES, AND GOALS

2006-2007

VISION STATEMENT

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

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.

Adopted by the Board of Trustees 6/9/04
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

In Fall 2006 Ohlone College began offering most of its classes on a compressed, 16-week calendar instead of the traditional 18-week calendar. The shorter semester allows more innovation in scheduling classes and allows students and faculty additional time between terms. Class sessions are slightly longer than on they were on the 18-week term. Classes on the compressed calendar continue to be offered for the same amount of units, at the same price per unit, and with the same excellent instructors and education. Fall Semester classes now begin at the end of August rather than the middle of August and Spring Semester classes begin at the end of January rather than the middle of January.

Starting with registration for Summer and Fall 2006, students use WebAdvisor, Ohlone’s online services, for all of their registration needs. Telephone registration (TeleReg) has been discontinued after Spring 2006, but recent enhancements to WebAdvisor will make the online registration process more streamlined and more available at peak registration periods. As the use of TeleReg by students has dramatically diminished and the technology that supports TeleReg has become more out of date, the College has chosen to shift its registration resources to WebAdvisor. Computer kiosks are available in the Building 1 Lobby for students to access WebAdvisor. WebAdvisor can be accessed online at https://access.ohlone.edu/.

During the Summer of 2006 construction began on the new Student Support Services Center, with construction expected to be completed by Fall 2008. As part of the construction, Building 7 was demolished during Summer 2006 and Parking Lot P is no longer available. The new Student Support Services Center will centralize student services such as Admissions and Records, Counseling, Disabled Students Programs and Services, Financial Aid, and the Student Health Center, among other services. Classes previously located in Building 7 were relocated around the Fremont campus, most notably in Building 1, Hyman Hall, and Building 18.

The Testing Center has moved to 1405A and English, math, and English as a Second Language (ESL) Placement Tests are now computerized and given on demand. This new method of administering placement tests means that students can take their placement tests at the Testing Center anytime during the Testing Center’s hours, placement tests are not timed, and results are available immediately. The Testing Center’s hours are available online at the Counseling Department Web page at http://www.ohlone.edu/org/counseling/ and in each semester’s printed schedule.

There are fourteen transfer degrees designed to meet discipline-specific transfer requirements; these transfer degrees are available in Art, Biology, Business Administration, Chemistry, Computer Engineering, Computer Science, Engineering, English, Exercise Science, Geology, Mathematics, Music, Physics, and Speech and Communication Studies. Transfer degrees allow students the opportunity to complete most of their lower division General Education and lower division major requirements before they transfer. Curriculum guides for the transfer degrees are available online at page 49-56, on the Ohlone College Web page, and in the Counseling Department.
Ohlone has one new associate degree and Certificate of Achievement in Administrative Assistant with a Supervisory Focus. Occupational degrees are designed to prepare students to enter the workplace after graduation. Students must complete 60 units to earn the associate degree and 24 units to complete the Certificate of Achievement in this program. The curriculum guide for this new program is available on page 87, on the Ohlone College Web page, and in the Counseling Department.

Ohlone has four new Certificates of Completion for 2006-2007 in Ballet Dance Teacher/Choreographer, Jazz Dance Teacher/Choreographer, Modern Dance Teacher/Choreographer, Tap Dance Teacher, and Video Game Development. Certificates of Completion consist of a maximum of 17 units and are usually career-related. These certificates allow students to complete a program in a shorter period of time. See pages 47-48 for the complete list of academic programs available.

Groundbreaking for the new Ohlone College Newark Center for Health Sciences and Technology occurred in May 2005. In an effort to prepare for the new Center, Ohlone offers classes at two sites in the Newark area. Day classes are offered at the University of Phoenix campus and evening classes are held at Newark Memorial High School. Both of these sites are located close to the future site of the Ohlone College Newark Center for Health Sciences and Technology. Students have a wide variety of classes from which to choose at both the University of Phoenix and Newark Memorial High School sites. The majority of classes fulfill General Education requirements and are CSU and/or UC transferable. Classes offered come from many different departments and include biology, business administration, computer studies, English, English as a Second Language, history, mathematics, speech, and various science classes.

**Learning Communities**

A learning community is a group of 2-5 classes that are linked together. Faculty collaborate to create common themes, assignments, and to make classes more interactive. Classes are connected to one another so students can easily see the interconnectedness of all that they study. Students who participate in learning communities are more engaged in their learning, develop close relationships with their peers and instructors, find that learning is more meaningful, and develop college success skills. Faculty who are involved in learning communities find that they are motivated because they are experimenting with new ways to teach. One major reason for participating in a learning community is to develop a community for learning, so students need to be registered in all of the classes in a learning community.

Learning communities are open to all students who meet the course prerequisites. University Express learning communities are geared towards recent high school graduates who are planning to transfer to a 4-year university. Some of the learning communities have all general education classes, while other learning communities have only one or two transferable classes or classes that are prerequisites to transfer classes. Students should talk with a counselor to determine if the learning community in which they are interested will support their goals.

**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 college community 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 1,173 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 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, composed of 109 colleges statewide organized into 72 districts, serves more than 2.5 million students 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. Last year the district served six high schools, two continuation high schools, two adult schools, and the Regional Occupational Program, and more than 12,000 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 16,180 students per year at our Fremont and Newark campuses and online.
- Ohlone offers 192 degrees and academic programs.
- Every year more than 500 students transfer to four-year colleges and universities.
- More than 850 students graduate with degrees or earn vocational certificates every year.
- Ohlone College employs 480 part-time and full-time faculty and 190 support and management personnel.

**HISTORY OF OHLONE**

Ohlone Community College District opened its doors in September 1967. 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 Huddleson Ranch property, located in the Mission foothills just south of old Mission San José, was selected as the permanent campus site.

The name of the institution honors the Ohlone people who inhabited the region. Distinguished by peaceful pursuits, especially in agriculture, the Ohlone held profound reverence for the earth, believing it was theirs for living but not for the taking. A series of epidemics in the mid-1800s virtually destroyed the Ohlone, although some descendants still reside in the Fremont-Newark area.

**THE OHLONE CAMPUSES**

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. Ohlone’s Fremont campus is removed from industrial sites but is still convenient to food and retail services, residential areas, and major transportation corridors.

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 structures are modeled on California missions with red-tiled roofs, adobe-like walls, and numerous open walkways. The architecture is designed to complement the hillsides surroundings. At the center of campus is the nine building Academic Village, composed of classroom buildings dedicated to music, chemistry, computer studies, art, health, athletics, music, and physical sciences. The central campus also features a student newspaper, cafeteria, and bookstore.

Early in its history Ohlone began offering satellite classes in Newark to better serve students at the west end of the district. In 2001 voters approved a bond dedicating $100 million to building a campus site in Newark. The groundbreaking took place in May 2005. The new facility, known as the Ohlone College Newark Center for Health Sciences and Technology, will open in January 2008.

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 periodicals 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. The Faculty/Staff Technology Center in Room 1407 is equipped with nine networked computer workstations. Instructional Technology staff provide training and consultation to faculty seeking to incorporate technology into instruction; manage the distance education program; supervise and maintain the videoconference center.

Student Center
The Hochler Student Center in Building 5 houses the Ohlone College Bookstore; Ohlone College Deal 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 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; Louise-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 extracurricular 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 Deaf Center 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. Registration information and appointments with a counselor may be obtained by calling (510) 659-7326 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) or (510) 659-6050 (TTY only); 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 Tuesday afternoon at 2:30 pm. 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 I. 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 days different than Tuesday 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.

Newark Area Campuses

Ohlone’s campuses in the nearby 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 Encyclopedica 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. The new Center is expected to open during the 2007-2008 academic year.

Tri-Cities One-Stop Career Center

39899 Balantine 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 educational 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 tax payer 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, Music, Language Arts, Theatre and Dance, and English 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 will 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.

OHLONE COMMUNITY COLLEGE DISTRICT BOARD OF TRUSTEES

The Ohlone Community College District serves the cities of Fremont and Newark and includes all facilities and functions for 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.

OHLONE COLLEGE FOUNDATION

The Ohlone College Foundation exists to broaden educational opportunities for students by providing scholarships and emergency loans to students who might otherwise, for financial reasons, be unable to attend. Just as importantly, the entire Ohlone community benefits from the Foundation’s provision of computer equipment, other specialized facilities, and community-focused programs at the Fremont campus. 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 indirectly benefits 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 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, and supporting the Foundation is a great way to invest in the future. To learn more about the Foundation or ways to help, please call (510) 659-6020.
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. Student Services staff are committed to each student’s success and growth as a person. Student Services coordinates with all areas of the campus to provide a college experience that is meaningful for students.

Most Student Services offices are located in the Blanchard Center, 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, Instruction and Student Services/Deputy Superintendent serves as administrator for student services. Students are encouraged to contact the Associate Vice President, Student Services or the Vice President, Instruction and Student Services/Deputy Superintendent 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 Office is responsible for maintaining accurate attendance and academic records and preparing reports reflecting student enrollment. General functions include transfer credit evaluation, general education and IGETC certification, transcripts, enrollment verifications, residency determinations, and certification of completion of certificate and degree requirements.

**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, computer software, and a variety of other merchandise and snack foods. For further information, hours of operation, and Bookstore policies 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 produces co-curricular activities. 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 4:30pm-6:30pm. 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. Call Campus Activities at (510) 659-6255, visit their Web site at http://www.ohlone.edu/org/ambassador/ or stop by Building 1, Room 1136 for more information.

Cafeteria and Vending Services

Building 5, second floor
(510) 659-6000 ext. 5075
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 First Resort 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
Badminton Club
Biology Club
Business Society of Ohlone College
Chinese Student Association
Circle K International
Deaf Voice
Desi Corner
Engineering Club
Gamers Association
Gay Straight Alliance
Glass Lovers of Ohlone College
Interact/Rotary of Ohlone College
Movimiento Estudiantil Chicano de Aztlán (MEChA)
Mu Alpha Theta
Muslim Student Association
Ohlone Biotech Student Association
Ohlone College Environmental Club
Ohlone College Persian Club
Ohlone College Pre-Pharmacy Student Association

Photo courtesy of College Relations
Ohlone College Psychology Club  
Pre-Med Club  
Respiratory Therapy Club  
Speech and Communications Club  
Student Ambassadors  
Students in Free Enterprise (SIFE)  
Theatre Arts Guild  
Vietnamese Student Association

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

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 including 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.

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.

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.

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 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 test- ing, 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.

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. 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 Reentry 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 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), 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 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.

FINANCIAL AID

Building 1, first floor, Windows 6, 7
(510) 659-6150
http://www.ohlone.edu/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 apply for financial aid online at http://www.fafsa.ed.gov.

Ohlone College participates in most of the 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 the next page 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
Chocow 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
Kiwanis 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
## 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>
<td></td>
<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 depending upon need and enrollment status</td>
<td>High financial need</td>
<td>FAFSA and other documents required by Financial Aid Office</td>
<td>On-going throughout academic year; priority deadline: March 2</td>
</tr>
<tr>
<td>Federal Supplemental Educational Opportunity Grant (FSEOG)</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; priority deadline: March 2</td>
</tr>
<tr>
<td>State Cal Grant A</td>
<td>Awarded after transfer to 4-year school</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 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 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><strong>SELF-HELP AID</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Work Study</td>
<td>Up to $4,500 depending upon hours worked and eligibility</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><strong>LOAN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Stafford Loan - Subsidized</td>
<td>Base amount up to $2,625 for freshman; $3,500 for sophomore level</td>
<td>Financial need, enrolled at least 1/2 time. U.S. Dept. of Education pays interest while borrower is in school</td>
<td>FAFSA, other documents required by Financial Aid Office, loan counseling, loan application</td>
<td>On-going throughout academic year</td>
</tr>
<tr>
<td>Federal Stafford Loan - Unsubsidized</td>
<td>Base amount not subsidized eligible, or additional $4,000 for independent students</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, loan application</td>
<td>On-going throughout academic year</td>
</tr>
<tr>
<td>Emergency Short-Term Loan</td>
<td>Up to $200 per loan, maximum two loans per semester</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><strong>SCHOLARSHIPS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associated Students of Ohlone College (ASOC)</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>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 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 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

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 102C.

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 the University of California, California State Universities, and private institutions. Students are encouraged to seek 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 have been developed with California State University East Bay; California State University Monterey Bay; San Jose State University; University of California, Davis; 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 Transfer Admission Agreement.

- 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), Strategies for College Success (PD-111), and Strategies for Succeeding in College (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, MonsterTrak.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, provided at no charge, helps students meet 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).
- Math Learning Center (Hyman Hall, Rooms HH-218-219). Tutoring services are provided in Math, Physics, and Engineering in the Math Learning Center.
- Respiratory Therapy (Building 8, Room 8105).

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.
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.

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.

STUDENT MATRICULATION PROGRAM

Matriculation is a process that enhances student access to the community colleges and promotes and sustains the efforts of students to be successful in their educational endeavors. The goals of matriculation are to ensure that all students complete their college courses, persist to the next academic term, and achieve their educational objectives.

Matriculation is comprised of eight components: Admission; Placement; Orientation; Counseling and Advisement; Student Follow-up; Coordination and Training; Research and Evaluation; and Prerequisites, Co-requisites, and Advisory Classes. In some cases students may be exempt for one or more of these components. The Admissions and Records and/or Counseling staff can assist students who request an exemption. Exempted areas include students who:

- Plan to enroll in non-credit or Community Education classes only;
- Have an earned associate or higher degree;
- Plan to enroll only in one performance or activity class.

Ohlone College agrees to:

- Assess basic educational skills and career goals;
- Provide orientation to the College’s programs, services, and policies;
- Provide quality instruction;
- Provide quality counseling;
- Offer a wide variety of courses;
- Offer services to support student education;
- Follow-up on student progress toward their goal.

Ohlone College expects students to:

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

Ohlone asks that students commit to an educational goal and will assist students in reaching that goal successfully.
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 high school sophomore, junior, and senior admission requirements described on page 23.

Application for Admission

Students may apply online at https://access.ohlone.edu. Application forms are 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 (an application is required every semester).

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. A change in Registered Nursing program admission criteria has been approved for Spring 2006 admission.

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

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 nonresident 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 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 students. All documents must be on file in the Office of Admissions and Records before a student can be considered for admission. Application deadlines are April 10 for Fall Semester and November 10 for 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 Admissions and Records:
   a. A completed International Student Application.
   b. An International Student Application processing fee of $100. This fee should be paid in U.S. dollars. The processing fee is not refundable. If the student is admitted to and enrolls at Ohlone College then the application processing fee is applied towards enrollment fees.
   c. Official bank documentation, in English and U.S. dollars, of the student’s ability to meet educational expenses, and a notarized affidavit of support if necessary.
   d. Scores from the Test of English as a Foreign Language (TOEFL). A minimum score of 500 (paper based) or 173 (computer based) is required for admission.
3. Provide evidence of health insurance coverage prior to registration.

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 Hearing Impaired Program are available to F1 students.

Special Student Admission - K-12 Students

K-12 students may take classes at Ohlone College with K-12 school permission and as space is available. Application information and forms are available on the College’s Web site (www.ohlone.edu) and at local schools.

Special admission students shall conform to the College’s academic rules and regulations and the code of conduct expected of all college students. Special status students must resubmit an application each term.
High School Sophomore, Junior, and Senior Admission (Grades 10, 11, and 12)

Ohlone College may admit high school students who—in the opinion of the Associate Vice President, Student Services, or designee—can benefit from instruction. Approval of the student’s parent or guardian and principal are required. Home schooled students may substitute a district office administrator’s signature for the principal’s signature.

Exceptional Students (Kindergarten through Grade 9)

Admission for exceptional students who have not yet completed the 10th grade requires signatures of the student’s parent or guardian, principal, a teacher, a letter of recommendation, and a written statement from the student.

Transcripts for Admission

The following students are required 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 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.

TESTING CENTER

Building 1, fourth floor
(510) 659-6126
http://www.ohlone.edu/org/placement

Ohlone College 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

Step 1: Submit an admission 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 at https://access.ohlone.edu. A paper application is 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.

Step 2: Review important information.

- A photo ID (driver’s license, school ID, or passport) is required for placement testing.

Step 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/schedules.html#testschedules

Step 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/org/placement/schedules.html#test_schedules

Step 6: Review sample questions

Sample questions for English, math, and ESL placement tests are available online at http://www.ohlone.edu/org/placement/studyguides.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 test students must submit an Ohlone College application and receive an Ohlone College ID number. ESL placement testing includes Orientation and academic advising. Students are expected to stay for the entire placement process, which is approximately 1 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/og/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 students’ 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. Orientation also helps students become familiar with the campus, learn where different campus services are offered, meet other new students, get direct help from counselors, learn about four year colleges and universities, and take the mystery out of getting a college education. Information provided during Orientation will answer these questions and help new students make a smooth transition to college.

Topics addressed at Orientation include the following:

- Information about Ohlone College, student services, 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/og/counseling/orientation.html and in the current Class Schedule.

Students have a variety of Orientation options:

- Complete the Online Orientation and attend an in-person group Advising Session;  
- Complete the Online Orientation and complete an Online Advising Session (via e-mail);  
- 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/og/counseling/orientation.html

REGISTRATION INFORMATION

Class Schedule

The Ohlone College Class Schedule, published three times a year (Summer/Fall, Fall, and Spring), includes application and registration procedures and forms, class offerings, academic calendar dates, and program and general information. Schedules are mailed to current students and 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://access.ohlone.edu.

Registration Priority

The order of priority for registration takes into account the number of completed and in-progress Ohlone College units, as well as the following priority groups:

1. Continuing students  
   a. with declared academic programs (major)  
   b. with non-declared academic programs (major)  
2. Returning and new students  
3. K-12 students

To qualify for priority registration, students must have an active academic program identified other “non-declared.”

Registration Procedures

Students should acquaint themselves with College policies regarding registration by studying the information in this Catalog, the Class Schedule, and registration materials supplied by the Office of Admissions and Records, Counseling, and The First Resort. Registration dates and times are made available by e-mail or letter to returning students and to new students who apply by the priority application deadline published in the Class Schedule. Students can register for classes online or in person during extended hours the week before each term begins.

WebAdvisor

WebAdvisor, Ohlone’s online academic management system, is available online to students at https://access.ohlone.edu and is the most convenient way to register for classes, drop classes, submit payments, and check grades. WebAdvisor also provides the first opportunity for students to register and offers the best selection of classes. Students can go online to https://access.ohlone.edu to set up a WebAdvisor account after submitting a current application to Ohlone College. WebAdvisor is available to all Ohlone College students.
Extended Registration
This option is available the week prior to the start of the semester, per dates posted in the Academic Calendar in the Class Schedule. Registration is usually available 48 hours after an admission application has been submitted. Registration by proxy is permissible with written permission from the student.

Dropping Classes or Withdrawing
Students can drop classes via WebAdvisor through 75% of the class or by depositing a completed drop form in the Building 1 lobby on the Fremont Campus or by coming to the Office of Admissions and Records. Classes dropped after the date that a W is required will receive a W. Classes cannot be dropped after the deadline to receive a W and will result in a required letter grade (A-F).

After classes begin students may be dropped from class or a waitlist 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.

Adding Classes (Registration After the Start of Class)
Up through the 10% point of the class students may add classes, where space is available, using WebAdvisor. After that point faculty signatures are required. Students should refer to the Class Schedule for more information. All add/drop forms must be returned to the Office of Admissions and Records drop box on or before the last day to register for or add classes. Please see the Academic Calendar for specific dates.

Students should attend the classes in which they wish to enroll. If space is available the instructors may give students signed and dated add/drop forms. Students should print their name and student ID number on the add/drop forms and bring them to the Office of Admissions and Records drop box for processing.

Waitlisting
Waitlisting is a way to electronically stand in line for a filled class. 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 automatically 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 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 to the class from the waitlist by the instructor.

Waitlisting
Waitlisting is a way to electronically stand in line for a filled class. 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 automatically 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 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 to the class from the waitlist by the instructor.

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 supersede, 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.
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. Enrollment fees and refunds vary based upon residency, non-resident, and/or non-citizen status. Please see the 2006-2007 fees listed on page 27.

Online Registration Access Fee
The registration fee is required of all students who register using WebAdvisor. 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 ($5.00 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 the 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 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 located on the Fremont campus. In accordance with state community college regulations, all enrolled students will be charged a Health Services Fee of $15.00 for both Fall and Spring semesters and $12.00 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 bonafide 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 Office of Admissions and Records 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 grades, transcripts, and diplomas and may withhold enrollment privileges, or any combination thereof, from any student or returning 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 a collection fee. 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.

2006-2007 FEES

Fees may be charged for examinations for course credit, 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>$26 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 register using WebAdvisor. 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 $2.00 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.</td>
</tr>
<tr>
<td>Non-resident tuition</td>
<td>$162 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>$172 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, E, 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>$15 for both Fall and Spring Semesters and $12 for Summer Session</td>
<td>Required of all enrolled students except those students with exceptions as listed in the Health Services Fee on page 26.</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</td>
<td>Payment for copies is required in Hyman Hall and the Library.</td>
</tr>
<tr>
<td>College Catalog</td>
<td>$3.00</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>$4.00 per copy</td>
<td>First two copies are free. Allows 5 days for processing during the semester; 2 weeks during Extended Registration and semester break periods.</td>
</tr>
<tr>
<td>Transcripts - Express Service</td>
<td>$10.00 per copy</td>
<td>Not available during 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>$4.00</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 $5.00</td>
<td></td>
</tr>
</tbody>
</table>

REFUNDS

Refund dates for Fall and Spring 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 12 (twelve) or fewer meetings, students must drop the class before the first meeting to be eligible to request a refund for that class.

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.

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.

2006-2007 OHLINE COLLEGE CATALOG
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 the 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 regular 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, I, and/or NC 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; refer to the Reinstatement section in this catalog for details.

Notification of Academic/Progress Status
Students shall be notified of academic/progress status by a notation on their grade reports for each regular semester. 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 have an appointment 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
- Completing successfully a Personal Development (PD) course
- Submitting midterm progress reports from instructors in all currently enrolled courses
- Achieving a grade point average of 2.0 or higher at the end of each semester

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 Education Code of the State of California, 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 Associate Vice President, Student Services.

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 31. 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 submitted to that office for consideration by the Registrar. 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 may be granted by a counselor if a student has the recommended minimum GPA.

<table>
<thead>
<tr>
<th></th>
<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>
<td>18+</td>
</tr>
<tr>
<td>Summer</td>
<td>3-5.5</td>
<td>6-8.5</td>
<td>9+</td>
</tr>
</tbody>
</table>
GRADES

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. Grades are available to students via WebAdvisor 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:

<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>Comments</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 nor 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.

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 described above.

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 ill-

Under this policy, the College offers:

1. Some courses solely for credit/no-credit (CR).
   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 (GR).
   These are identified by the code GR 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 or evaluative grade option, a student is required to choose a grading method by the end of the fourth week of a course offered in a regular semester and no later than the 30% point of courses other than semester length or the Summer session. 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 apply for credit/no-credit in the Office of Admissions and Records within the specified period of time, a standard letter grade is awarded.
ness 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. When the work has been completed as outlined on the contract, the instructor will forward 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 reenroll in a course in which they have an Incomplete grade. Students may 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.

Change of Grade
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 determination of the student’s grade by the instructor shall be final in the absence of clerical or evaluative error.

A change in the student’s letter grade to CR or NC will be made in the Office of Admissions and Records if the student elected to take the class under the Credit/No-Credit option. These grades cannot be changed back to a letter grade after the credit/no-credit deadline has passed.

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 $15.00 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
To raise a substandard grade (D, F, or NC) any course may be repeated one time. 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. 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.

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

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.

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 for eighteen weeks 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 compressed semester system, requiring the completion of sixteen weeks of class time (including final exams). Therefore, a one-unit course would require 3.4 hours of work each week for sixteen weeks. To convert a unit to semester units, multiply the number of units by 1.5; to convert from quarter to semester units, multiply by 0.66.

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) that teach 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 exam 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 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 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. 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Basic Training</td>
<td>6 semester units</td>
<td></td>
</tr>
<tr>
<td>Military Service School Equivalencies as recommended by the American Council on Education’s Committee for Evaluation of Military Services Experiences</td>
<td>16 semester units</td>
<td></td>
</tr>
<tr>
<td>Non-collegiate courses as recommended by the American Council on Education as printed in the “National Guide to Credit Recommendations for Non-collegiate Courses.”</td>
<td>16 semester units</td>
<td></td>
</tr>
</tbody>
</table>

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

**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>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>English: English Literature and Composition</td>
<td>3, 4, 5</td>
<td>Plan B or C GE</td>
<td>6 units</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.
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.

**FINAL EXAMINATIONS**

Final examinations are given at the end of each semester. Students are required to take the 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, Instruction and Student Services/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 93380. 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. In addition, colleges may be required to provide certain student information to the military for recruiting purposes, including, but not limited to, student name, address, and telephone number. Any student who does not wish such information to be released must notify the Registrar in writing. Upon receipt of this notification, the student’s wishes concerning release of information will be honored. 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.

Release of Student Information

Ohlone College may be required under the Solomon Amendment to release to the United States Department of Defense the following information concerning its students: name, address, telephone number, date of birth, level of education, major, degrees received, and other educational institutions in which a student was previously enrolled. This policy may be reviewed in the Office of the Associate Vice President, Student Services or the Office of Admissions and Records.

Any student who does not wish such information to be released about his or her status or participation must notify the Registrar in writing at the beginning of each semester or session of attendance.

This statement of policy is based upon:

- The Family Educational Rights and Privacy Act of 1974 as amended,
- California Education Code 76200ff, and

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 such regulations.

Attendance

Students should attend the first meeting of their classes to assure maintenance of their enrollment. Students who fail to attend the first or second sessions of their classes may be dropped from class by the instructor.

Regular attendance and participation is required of all students enrolled in courses at Ohlone College. This includes regular attendance, completion of examinations, 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 by submitting drop cards by the term 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 priority when registration appointments are assigned. 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 with a counselor or online via WebAdvisor (https://access.ohlone.edu).
STEPS 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 47-48.
   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 via your WebAdvisor account or submit an application to the Office of Admissions and Records by the date published in the Class Schedule.

3. Certificate of Achievement
   a. Select a major that offers a Certificate of Achievement from the list of programs on pages 47-48.
   b. Complete all the courses required for the Certificate of Achievement. The major requirements are listed on the Curriculum Guides on pages 56-70.
   c. Complete all of the required courses with the minimum Grade Point Average and residency requirement.
   d. Apply for awarding of the certificate via your WebAdvisor account or submit an application to the Office of Admissions and Records by the date published in the Class Schedule.

4. Associate degree
   a. Read the associate degree requirements on page 37.
   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 40 or seek guidance from a counselor.
   c. Select a major from the programs on pages 47-48. The associate degree requirements are listed on the Curriculum Guides on pages 49-70. 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 via your WebAdvisor account or submit an application to the Office of Admissions and Records by the date published in the Class Schedule.

5. Transfer with an associate degree
   a. Refer to the transfer information on pages 41-43.
   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 40 or seek guidance from a counselor.
   c. Select a major from the programs on pages 47-48. The associate degree requirements are listed on the Curriculum Guides on pages 49-70. 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 via your WebAdvisor account or submit an application to the Office of Admissions and Records by the date published in the Class Schedule.
   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 41-43.
   b. Follow the CSU (Plan B) General Education Requirements on page 45 for a campus of the California State University or follow the IGETC (Plan C) General Education Requirements on page 46 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 46 if you have not yet decided between a CSU or UC. You should also see a counselor to help you make the decision about campus, 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.

2006-2007 OHLONE COLLEGE CATALOG
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 student 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 40.)

Students are eligible for graduation upon the completion 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 49. 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 56-70. 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 taking 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 33.) 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. 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 40. 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:

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)

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; Ohlone College General Education requirements recognize American Institutions only)

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)

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) 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.
2) Use the scientific method to distinguish between science and pseudo-science, analyze data, make observations, draw conclusions, and distinguish between hypothesis and theory.
3) Solve scientific problems in a variety of contexts.

Area IV Language and Rationality
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 V Physical Education/Wellness
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.

Area VI Cultural Diversity
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 healthful 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, disabled, 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.

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.

2006-2007 OHLONE COLLEGE CATALOG
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 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.

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.

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.

CERTIFICATE PROGRAMS

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

General Education Plans/Major Options Chart

<table>
<thead>
<tr>
<th>General Major</th>
<th>PLAN A: Ohlone General Education Pattern</th>
<th>PLAN B: CSU General Education Pattern</th>
<th>PLAN C: IGETC General Education Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>
<td>For students whose goal is to complete lower division General Education for transfer to a UC or CSU; may require additional lower division major preparation after transfer.</td>
<td></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>
<td>For students whose goal is to complete most lower division major preparation and General Education course requirements for transfer to a UC or 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>
<td>For students whose goal is to complete lower division General Education for transfer to a UC or CSU and to complete a specific vocational major.</td>
</tr>
</tbody>
</table>
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 a 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.

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 classes.

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 45.) 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 2006-2007, 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/impactioninfo.shtml.

Transfer to the University of California
Course requirements vary from one UC campus to the next; therefore, students should consult 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. Some of the institutions to which Ohlone students have been accepted as transfer students include: Arizona State University, Cornell University, Embry-Riddle, Georgetown University, Mills College, Mount Holyoke, New York University, Purdue University, St. Mary’s College, Santa Clara University, Smith College, Stanford University, University of Arizona, University of Nevada at Las Vegas, University of the Pacific, University of San Francisco, University of Southern California, and Wellesley.

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 46.) 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 transferrable 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)

Transfer Admission Agreements (TAAs) are contracts between the student, Ohlone College, and a participating university. An accepted TAA application guarantees the student admission to the university upon completion of stated requirements. Students may be eligible for a TAA once they have completed 30 transferrable units with at least a 2.80 GPA. Interested students must meet with a counselor 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 TAAs per academic year. While not all universities refer to these contracts as TAAs, all of the universities listed below participate. Please visit http://www.ohlone.edu/org/transfer/taa.html for more information.

Participating Universities:
California State University, East Bay (Transfer Admission Guarantee, or TAG)
California State University, Monterey Bay (TAA)
San José State University (TAA)
Santa Clara University (TAA)
University of California, Davis (TAA)
University of California, Riverside (Transfer Admission Guarantee, or TAG)
University of California, Santa Barbara (TAA)
University of California, Santa Cruz (Guaranteed Admission for Transfer Entry Program, or GATE)

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 transferrable work and maintenance of the requisite GPA. See a counselor for details and refer to http://www.ohlone.edu/og/ssc/transfer/concurrentenrollment.html for more information.
**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

A 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.

- ANTH 101 & 101L
- CFS 109; GEOG 101 & 101L, 121, 123; GEOH 101 & 101L, 102, 103 & 103L;
- HILTH 150; PHIS 135; PHYS 120, 121, 140, 141, 142; PTA 120

## AREA II  SOCIAL SCIENCE

A AA Degree

- AJ 101, 102, 106, 117; ANTH 102*, 103, 104*, 105; BA 102A, 102B; BRDC 155

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

## AREA III  FINE ARTS/HUMANITIES

A AA Degree (3 units)

- ART 101, 102, 106, 117; ANTH 102*, 103, 104*, 105; BA 102A, 102B; BRDC 155

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

## AREA IV  LANGUAGE AND RATIONALITY

A AA Degree (3 units from A and 1-4 units from B), AS Degree (3 units from A or B)

### A. ENGLISH COMPOSITION
- ENGL 101A, 102

### B. ANALYTICAL THINKING AND ORAL COMMUNICATION
- BA 123; CS 102, 104A, 113; ENGL 101C; MATH 101A, 152 or 152A & 152B, 153, 156, 159, 160, 163, 166, 167, 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 (MATH 152, 152A, 152B, 153, 156, 159, 160, 163, 166, 167, 181, 191A, 191B, 191C, 103, or 104) or proficiency score on the Ohlone Placement test. Completion of the RN program satisfies this requirement.

## AREA V  PHYSICAL EDUCATION/WELLNESS

A AA Degree

Complete one of the following options:

### A. PHYSICAL EDUCATION

### B. WELLNESS
- PE 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

A AA Degree (3 units)

Completion of the RN Program satisfies this requirement.

- ANTH 102, 104; ART 103A, 103B, 103D, 103E; ASL 140, 142, 145; CHIS 101, 102, 106A, 112; DEAF 311, 330; ECS 309; ENGL 115, 130, 135; HIST 112, 114, 115, 135; IS 110, 120; MUS 102, 104; PHIL 110, 112; SOC 101, 102, 106; SPCH 105, 107; 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

A AA 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 2006-2007 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 (DeAnza, Evergreen, Foothill, Gavilan, Mission, San Jose City, West Valley) OR students who have completed a BA/BS from CS\textsuperscript{U} or UC 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.

AREA A  CRITICAL THINKING & ORAL COMMUNICATION (*9 units)

Select one course from each category. All courses must be completed with a grade of C or better.

A1 COMMUNICATION – Oral: SPCH 101, 103 (3)
A2 COMMUNICATION – Written: ENGL 101A (4)
A3 CRITICAL THINKING: ENGL 101C, PHIL 104, 107; SPCH 102, 104, 106 (3)

AREA B  NATURAL SCIENCE (*9 units)

B1 SCIENCE (include at least one laboratory course)

A. BIOLOGICAL (One course)
   - Lab: ANTH 101 & 101L; BIOL 101A, 103A, 104, 106, 130 (4-5)
   - Non-Lab: ANTH 101; BIOL 105, 107, 108, 109 (3)

B. PHYSICAL (One course)
   - Lab: ASTR 101A & 102; 101B & 102 (4); CHEM 101A, 106A, 112A (4-5); GEOG 101 & 101L; 102 & 102L; 103 & 103L (4); PHYS 135 (4); PHYS 120, 121, 140, 141, 142 (4)
   - Non-Lab: ASTR 101A, 101B (3); CHEM 108 (3); GEOG 101 (3); GEOL 101, 102, 103 (3)

B2 MATHEMATICS/QUANTITATIVE REASONING:

(One course required for admission)

CS 113; MATH 101A, 156, 159, 160, 163, 166, 167, 181, 188 (3-5)

AREA C  HUMANITIES (*9 units)

ENGL 101B (4) AND one course from ARTS (C1) AND one course from HUMANITIES (C2)

C1 ART 100, 101, 103A, 103B, 103D, 103E, 131A, 131B, 161A (2-4); CAOT 161A; HIST 107, 141, 142, 143 (3); IS 100, 142, 143 (3); MUS 100, 101, 102, 110A, 120A, 120B, 122, 123, 125 (1-3); SPCH 132; TD 100, 101, 102, 107, 109, 110, 114, 115A, 120A3, 126, 127, 132, 150, 152, 154, 159, 161, 162, 163, 164 (3-7)

C2 ARBC 101A, 101B (5); ASL 101A, 101B, 102A, 102B, 103A, 103B, 104A, 104B, 181A, 181B (3-5); CHIN 101B, 102A, 102B (5); CHS 102, 106A (3); ENGL 101C, 104, 105A, 105B, 106, 107, 112, 113, 114, 115, 117, 118, 119, 130, 135 (3-4); FREN 101A, 101B, 102A, 102B (5); HIST 104A, 104B, 112 (3); ITAL 101A, 101B (5); JOUR 106 (3); JPN 102A, 102B; PHIL 101, 102, 106, 109A, 109B, 110, 112, 114 (3); SPAN 101A, 101B, 102A, 102B (5); SPCH 130 (3); TD 130 (3); WS 115 (3)

AREA D  SOCIAL SCIENCES (*9 units)

D1 HISTORY/GOVERNMENT – Take one of the following combinations to fulfill the United States History, Constitution, and American Ideals requirement:

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

D2 One course from among: (If HIST 117A and HIST 117B are taken under D1 above a course must be selected from a discipline other than history)

AJ 101, 102, 106, 117 (3); ANTH 101, 102, 103, 104, 105, 106 (3); BA 102A, 102B (3); BRDC 155 (3); CAOT 101L (2); CHS 101, 102, 112, 3 (3); CINET 101 (3); CS 101 (3), 101L (2); GEOG 102, 104 (3); HIST 105, 112, 114, 115, 117A, 117B, 118 (3-4); IS 110, 120 (3); JOUR 155 (3); PS 102, 103, 105 (3); PSY 101, 102, 105, 106, 108, 110 (3); SOC 101, 102, 105, 106 (3); SPCH 105, 122 (3); WS 120 (3)

AREA E  LIFELONG UNDERSTANDING (*3 units)

(At least 3 units from among):

ANTH 102 (3); BIOL 109 (3); BFS 109 (3); HLTH 101, 150 (3); PE 240, 251 (3); PSY 114; SOC 101, 105 (3); WS 120, 150 (3)

* Indicates minimum number of lower-division (LD) units required in each area. For Areas B, C, and D combined, the maximum number of units to be certified is 30. Units completed beyond that number may transfer as elective units.

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 transmit 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.

2006-2007 OHLONE COLLEGE CATALOG
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:

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

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

<table>
<thead>
<tr>
<th>AREA 1: ENGLISH COMMUNICATION (9 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSU – 3 courses required one from each group A, B, and C.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UC – 2 courses required one each from group A and B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A: ENGLISH COMPOSITION – ENGL 101A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B: CRITICAL THINKING – ENGL 101C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C: ORAL COMMUNICATION (CSU only) – SPCH 101</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 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, 103D, 103E; HIST 141, 142, 143; MUS 100, 101, 102, 110A, 120A, 120B, 122, 123, 125; TD 100, 101, 102, 109 | | | |

| AREA 4: SOCIAL AND BEHAVIORAL SCIENCES (9 units) | | | |
| Three courses from at least two disciplines or an interdisciplinary sequence. | | | |
| ANTH 101, 102, 103, 106; BRDC 155; BA 102A, 102B; CHS 101, 102; GEOG 102, 104; HIST 112; IS 110, 120; JOUR 155; PS 102, 103, 105; PSY 101, 102, 105, 106, 108, 115, 120; SOC 101, 102, 105, 106; SPCH 122; 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) | | | |
| Non-Lab: CHEM 108; GEOG 101; GEOL 102, 103; PHYS 108 | | | |
| B. BIOLOGICAL SCIENCE (One course) | | | |
| Lab: ANTH 101 & 101L; BIOL 101A, 101B, 103A, 103B, 104, 106, 130 | | | |
| Non-Lab: ANTH 101; BIOL 105, 107, 109, 141 | | | |

| 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–105 and HIST–117A | | | |
| • PS–102 and HIST–117A | | | |
| • PS–102 and HIST–117B | | | |
| • HIST–117A and HIST–117B | | | |

**NOTE:** 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.
<table>
<thead>
<tr>
<th>ACADEMIC PROGRAMS</th>
<th>Transfer</th>
<th>AA Degree</th>
<th>AS Degree</th>
<th>Certificate of Achievement</th>
<th>Certificate of Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Page 56</td>
<td>Page 56</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration of Justice</td>
<td>Page 57</td>
<td>Page 57</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative Assistant</td>
<td>Page 58</td>
<td>Page 58</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative Assistant: Supervisory Focus</td>
<td>Page 57</td>
<td>Page 57</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Sign Language and Deaf Studies</td>
<td>Page 58</td>
<td>Page 58</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthropology: Cultural</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthropology: Physical</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Archaeology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td>Page 49</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art History</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Astronomy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio Technician</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ballet Dance Teacher/Choreographer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>Page 50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology: General</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology: Human</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology: Life Sciences Survey</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biotechnology: Research Associate/Biotechnician</td>
<td>Page 73</td>
<td>Page 73</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Digital Video and Editing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Entertainment Television</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Lighting and Video for Television</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Live Television Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Music Video Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Radio Air Talent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Radio Digital Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Radio Program Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcasting: Radio Studio Operations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>Page 49</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Communication</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Supervision/Management</td>
<td>Page 59</td>
<td>Page 59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceramics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>Page 51</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry Lab Skills: Advanced</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry Lab Skills: Basic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cisco Certified Network Associate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cisco Certified Network Professional</td>
<td>Page 60</td>
<td>Page 60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial Music</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer and Information Literacy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Applications in Biotechnology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Programming</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td>Page 52</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Studies Proficiency</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Studies/Internet Web Programming</td>
<td>Page 60</td>
<td>Page 60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Studies/Software Development</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Costume</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Communications and Internetworking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Communications and Web Programming</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deal Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desktop Publishing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desktop Support (A+, Server+, MCP)</td>
<td>Page 62</td>
<td>Page 62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Art</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drawing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Early Childhood Studies</td>
<td>Page 62</td>
<td>Page 62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earth and Environmental Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic Music Composition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>Page 52</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>Page 53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English as a Second Language</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entertainment Design and Technology: Audio Technician</td>
<td>Page 64</td>
<td>Page 64</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entertainment Design and Technology: Costume</td>
<td>Page 63</td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entertainment Design and Technology: Live Event Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entertainment Design and Technology: Moving Light Technician</td>
<td>Page 64</td>
<td>Page 64</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entertainment Design and Technology: Stage Craft</td>
<td>Page 63</td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entertainment Design and Technology: Theatrical and TV Lighting Technician</td>
<td>Page 64</td>
<td>Page 64</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exercise Science</td>
<td>Page 53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fitness Instructor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forensics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geographic Information Systems (GIS)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geography: Cultural</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACADEMIC PROGRAMS</td>
<td>Transfer</td>
<td>AA Degree</td>
<td>AS Degree</td>
<td>Certificate of Achievement</td>
<td>Certificate of Completion</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>----------</td>
<td>-----------</td>
<td>-----------</td>
<td>----------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Geography: Physical</td>
<td></td>
<td>Page 79</td>
<td>Page 79</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geology</td>
<td></td>
<td>Page 54</td>
<td>Page 79</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass</td>
<td></td>
<td>Page 79</td>
<td>Page 79</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphic Arts/Computer Graphics</td>
<td></td>
<td>Page 64</td>
<td>Page 64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphic Design</td>
<td></td>
<td>Page 79</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercultural Communication</td>
<td></td>
<td>Page 79</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet Design</td>
<td></td>
<td>Page 65</td>
<td>Page 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interior Design Basics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interior Design Communications</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interior Design Technology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet Applications Development</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interpreter Preparation Program</td>
<td></td>
<td>Page 66</td>
<td>Page 66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercultural Communication</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java Developer</td>
<td></td>
<td>Page 66</td>
<td>Page 66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jazz Dance: Teacher/Choreographer</td>
<td></td>
<td>Page 66</td>
<td>Page 66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Journalism</td>
<td></td>
<td>Page 66</td>
<td>Page 66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liberal Arts</td>
<td></td>
<td>Page 49</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linux Administration</td>
<td></td>
<td>Page 64</td>
<td>Page 64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live Event Management</td>
<td></td>
<td>Page 64</td>
<td>Page 64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td>Page 54</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics: Applied</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics: Pure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microsoft Systems Engineer</td>
<td></td>
<td>Page 66</td>
<td>Page 66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modern Dance: Teacher/Choreographer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimedia</td>
<td></td>
<td>Page 67</td>
<td>Page 67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td></td>
<td>Page 55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music Theory: Advanced</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music Theory: Introductory</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Science</td>
<td></td>
<td>Page 49</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NET Programming I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NET Programming II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Administrator</td>
<td></td>
<td>Page 67</td>
<td>Page 67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Computer Applications</td>
<td></td>
<td>Page 62</td>
<td>Page 62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Support</td>
<td></td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Interpretation</td>
<td></td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Painting</td>
<td></td>
<td>Page 65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paleontologists/Natural History</td>
<td></td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philanthropy</td>
<td></td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Photography</td>
<td></td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Therapist Aide</td>
<td></td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Therapist Assistant</td>
<td></td>
<td>Page 63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Painting</td>
<td></td>
<td>Page 65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td></td>
<td>Page 55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics: Advanced</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics: Introductory</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piano Performance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Real Estate Sales Agent</td>
<td></td>
<td>Page 65</td>
<td>Page 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Real Estate Sales Broker</td>
<td></td>
<td>Page 65</td>
<td>Page 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Real Estate Sales Broker Associate</td>
<td></td>
<td>Page 65</td>
<td>Page 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registered Nursing</td>
<td></td>
<td>Page 69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory Therapist</td>
<td></td>
<td>Page 69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td></td>
<td>Page 65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speech and Communication Studies</td>
<td></td>
<td>Page 56</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SQL Database Administrator</td>
<td></td>
<td>Page 65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stage Craft</td>
<td></td>
<td>Page 66</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tap Dance Teacher/Choreographer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical Support Specialist</td>
<td></td>
<td>Page 70</td>
<td>Page 70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theatrical and TV Lighting Technician</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3D Modeling and Animation</td>
<td></td>
<td>Page 70</td>
<td>Page 70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNIX/Linux Systems Administrator</td>
<td></td>
<td>Page 70</td>
<td>Page 70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visual Basic Programming</td>
<td></td>
<td>Page 66</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video Game Development</td>
<td></td>
<td>Page 66</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vocal Music Performance</td>
<td></td>
<td>Page 66</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vocal Music Performance: Advanced</td>
<td></td>
<td>Page 71</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Content</td>
<td></td>
<td>Page 67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Delivery</td>
<td></td>
<td>Page 67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Infrastructure</td>
<td></td>
<td>Page 67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Page Design</td>
<td></td>
<td>Page 67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows MCSD</td>
<td></td>
<td>Page 67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Windows MCSE</td>
<td></td>
<td>Page 68</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work Readiness</td>
<td></td>
<td>Page 68</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

**BUSINESS (AA):**
- Business Administration
- *Accounting (BA-101A, B)
- *Economics (BA-102A, B)
- Computer Science
- Mathematics
- Music
- Philosophy
- Social Sciences (see list below)
- Speech

* Required for Business Majors

**LIBERAL ARTS (AA):**
- Art
- Theatre and Dance
- English
- Foreign Languages
- Mathematics

**FINE ARTS (AA):**
- Art
- Theatre and Dance
- Music

**NATURAL SCIENCE (AA):**
- Anthropology (101, 101L)
- Astronomy
- Biology
- Chemistry
- Computer Science
- Geography (101, 101L)
- Geology
- Health (101)
- Mathematics
- Physical Science
- Physics

**SOCIAL SCIENCE (AA):**
- Anthropology
- Economics
- Geography
- History
- Political Science
- Psychology
- Sociology

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

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

BIOL-101A Principles of Biology-Molecular and Cellular 5
BIOL-101B Principles of Biology-Organisms and Systems 5
CHEM-104A General Chemistry 5
CHEM-104B General Chemistry 5
CHEM-112A Organic Chemistry 5
CHEM-112B Organic Chemistry 5
MATH-101A Calculus with Analytical Geometry 5
* PHYS-120 Introduction to Physics I 4
* PHYS-121 Introduction to Physics II 4

* PHYS-140 + 141 + 142 may be substituted for PHYS-120 + 121.

BUSINESS ADMINISTRATION

AA Degree: Transfer Major

The Associate Degree in Business Administration offered by Ohlone College is designed to provide students with a fundamental understanding of the principles of business administration. Classes prepare students for studying business at most universities. This program fulfills typical lower-division requirements at four-year institutions.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s AA degree program in Business Administration 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 AA 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

BA-101A Principles of Accounting 5
BA-101B Principles of Accounting 5
BA-102A Principles of Economics-Macroeconomics 3
BA-102B Principles of Economics-Microeconomics 3
BA-125 Introduction to Business 3
BA-141A Business Law 3
MATH-159 Elements of Statistics and Probability 5
MATH-167 Calculus for Business and Social Science 5

Total: 32
### 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.

<table>
<thead>
<tr>
<th>MAJOR FIELD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry 5</td>
</tr>
<tr>
<td>CHEM-101B</td>
<td>General Chemistry 5</td>
</tr>
<tr>
<td>CHEM-112A</td>
<td>Organic Chemistry 5</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry 5</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytical Geometry 5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytical Geometry 5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytical Geometry 5</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics 4</td>
</tr>
<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism 4</td>
</tr>
<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics 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>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>
</tbody>
</table>

### 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 the computer science and engineering. The core courses in Computer Science, Engineering, Math, and Physics required in this AS 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.

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

#### 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:

<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 (3)</td>
<td></td>
</tr>
<tr>
<td>CS-101L</td>
<td>Computer Applications (2)</td>
<td></td>
</tr>
<tr>
<td>MATH-188</td>
<td>Pre-Calculus (5)</td>
<td></td>
</tr>
</tbody>
</table>

Some colleges and universities require additional courses such as:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry (5)</td>
<td></td>
</tr>
<tr>
<td>ENGL-101B</td>
<td>Reading and Composition (Introduction to Literature) (4)</td>
<td></td>
</tr>
<tr>
<td>ENGI-115</td>
<td>Engineering Communication (4)</td>
<td></td>
</tr>
<tr>
<td>ENGI-140</td>
<td>Materials Engineering (4)</td>
<td></td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking (3)</td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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-113</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-11B</td>
<td>Introduction to Assembly Language Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-124</td>
<td>Advanced Programming with Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS Electives</td>
<td>Any Computer Science course not listed above</td>
<td>2-4</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytical 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>

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 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>MATH-188</td>
<td>Pre-Calculus</td>
<td>5</td>
</tr>
</tbody>
</table>

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 Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytical 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>

continued

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 Code</th>
<th>Course 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 Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MAT-104</td>
<td>Differential Equations</td>
<td>5</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>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two (2) of the following Engineering courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 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>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>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-101A</td>
<td>4</td>
</tr>
<tr>
<td>ENGL-101B</td>
<td>4</td>
</tr>
</tbody>
</table>

SUPPORTING COURSES

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-105A</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-105B</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-112</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-113</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-118</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-101C</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-104</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-105A</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-105B</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-106</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-107</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-111A</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-111B</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-113</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-114</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-115</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-117</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-118</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-119</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-127</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-129</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-130</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-135</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</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-103A</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-103B</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-130</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-106A</td>
<td>4</td>
</tr>
<tr>
<td>CFS-109</td>
<td>3</td>
</tr>
<tr>
<td>HLTH-101</td>
<td>3</td>
</tr>
<tr>
<td>PE-240</td>
<td>4</td>
</tr>
<tr>
<td>PE-257</td>
<td>3</td>
</tr>
<tr>
<td>PE-258</td>
<td>3</td>
</tr>
<tr>
<td>PE-381</td>
<td>1</td>
</tr>
<tr>
<td>PE-382</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Required Units: 35

Total Required Units: 20

RECOMMENDED COURSE

One year of college-level foreign language, with a grade of C or better.
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.

**MAJOR FIELD**

<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>GEOL-101</td>
<td>Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL-101L</td>
<td>Physical Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following course combinations:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GEOL-102</td>
<td>Introduction to Oceanography AND</td>
<td>(3)</td>
</tr>
<tr>
<td>GEOL-102L</td>
<td>Oceanography Laboratory</td>
<td>(1)</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL-103</td>
<td>Palaeontology and Dinosaurs AND</td>
<td>(3)</td>
</tr>
<tr>
<td>GEOL-103L</td>
<td>Palaeontology Laboratory</td>
<td>(1)</td>
</tr>
<tr>
<td>Select one of the following Physics courses:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism</td>
<td>(4)</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</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>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 Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytical 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>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-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>
<tr>
<td>MATH-110</td>
<td>Introduction to Mathematical Software</td>
<td>(5)</td>
</tr>
</tbody>
</table>
MUSIC

AA Degree: Transfer Major

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

MUS-110A Music Theory and Harmony 3
MUS-110B Harmony 3
MUS-110C Advanced Harmony 3
MUS-110D Advanced Harmony 3
MUS-111A Musicianship 1
MUS-111B Musicianship 1
MUS-111C Advanced Musicianship 1
MUS-111D Advanced Musicianship 1
MUS-160A Beginning Class Piano 1
MUS-160B Class Piano 1
MUS-160C Class Piano 1
MUS-160D Class Piano 1

Select one of the following courses: 3
MUS-101 Introduction to Music—Western Classical Music OR (3)
MUS-102 Music Appreciation OR (3)
MUS-104 Music of World Cultures OR (3)
MUS-120A History of Trends in Music Literature OR (3)
MUS-120B History of Trends in Music Literature (3)

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

Vocal Track
Complete 6-8 units from the following:
MUS-162A-D Class Voice 4
MUS-166A-B Applied Music 2
MUS-335, 336, 356, 358, 367, 368, 394 2

Instrumental Track
Complete 6 units from the following:
MUS-163A-D Woodwind Instruments 4
MUS-164A-D Brass Instruments 4
MUS-165A-D Percussion Instruments 4
MUS-166A-B Applied Music 2
MUS-350, 352, 370, 371, 374 Instrumental Performing Group 1-3

Composition Track
MUS-112A Recording with Pro Tools 3

Complete 3 units from the following:
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

Total Required Units: 29-31

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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<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-107</td>
<td>Forensics Workshop AND/OR</td>
<td>1-6</td>
</tr>
<tr>
<td>SPCH-112</td>
<td>Argumentation and Debate Workshop</td>
<td>1-6</td>
</tr>
<tr>
<td>SPCH-132</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
</tbody>
</table>

*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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-141</td>
<td>Live TV Newscast</td>
</tr>
<tr>
<td>JOUR-155</td>
<td>Mass Media and Society</td>
</tr>
<tr>
<td>PSY-101</td>
<td>General Psychology</td>
</tr>
<tr>
<td>SOC-101</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
</tr>
<tr>
<td>SPCH-122</td>
<td>Family Communication</td>
</tr>
<tr>
<td>SPCH-130</td>
<td>Oral Interpretation of Literature</td>
</tr>
<tr>
<td>TD-110</td>
<td>Introduction to Acting</td>
</tr>
</tbody>
</table>

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.

d) Complete at least 50% of the Major Field courses at Ohlone College.

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>

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 OR</td>
<td>3</td>
</tr>
<tr>
<td>BA-110</td>
<td>Business Economics</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>3</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>

Supporting Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-123</td>
<td>Math for Accounting and Business</td>
<td>3</td>
</tr>
<tr>
<td>BA/PSY-139</td>
<td>Psychology in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Major Field Elective</td>
<td></td>
<td>3-4</td>
</tr>
</tbody>
</table>


ADMINISTRATIVE ASSISTANT WITH SUPERVISING FOCUS

AA Degree
and
Certificate of Achievement Program

This curriculum is designed to prepare students for employment in business, industry, or government. The graduate often begins as an administrative assistant and later advances to executive secretary with certain managerial functions. 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-106</td>
<td>Applied Accounting</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-141A</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BSM-101</td>
<td>Fundamentals of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>BSM-103</td>
<td>Management of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>CAOT-104</td>
<td>Basic Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>CAOT-194A</td>
<td>MS Office Advanced</td>
<td>2</td>
</tr>
<tr>
<td>CS-101L</td>
<td>Computer Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-123</td>
<td>Math for Accounting and Business</td>
<td>3</td>
</tr>
<tr>
<td>BA/PSY-139</td>
<td>Psychology in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Major Field Elective</td>
<td></td>
<td>3-4</td>
</tr>
</tbody>
</table>

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 courses.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-106</td>
<td>Applied Accounting</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-141A</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CAOT-104</td>
<td>Basic Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>CAOT-194A</td>
<td>MS Office Advanced</td>
<td>2</td>
</tr>
<tr>
<td>CS-101L</td>
<td>Computer Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

18

SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-123</td>
<td>Math for Accounting and Business</td>
<td>3</td>
</tr>
<tr>
<td>BA/PSY-139</td>
<td>Psychology in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
<td>1</td>
</tr>
<tr>
<td>CAOT-156</td>
<td>Microsoft Publisher</td>
<td>.5</td>
</tr>
<tr>
<td>CAOT-188</td>
<td>Desktop Publishing with QuarkXpress</td>
<td>2</td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Major Field Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

15.5


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

continued
**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-392

---

**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:**
1. Complete Major Field and Supporting Course with a 2.0 grade point average.
2. Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
3. Complete at least 60 degree-applicable units with a 2.0 grade point average.
4. Complete at least 12 units at Ohlone College.

**Requirements for Certificate of Achievement:**
1. Complete Major Field courses.
2. Complete at least six units at Ohlone College.
3. Maintain a 2.0 grade point average in Major Field courses.

**Major Field**

- **BRDC-120** Introduction to Broadcasting 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-144** Live TV Newscast 3
- **BRDC-142** Live TV Studio Production 3
- **BRDC-146** Directing Live Television 3
- **JOUR-101A** Newswriting 3
- **JOUR/BRDC-155** Mass Media and Society 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 leaders, 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:**
1. Complete Major Field and Supporting Courses with a 2.0 grade point average.
2. Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
3. Complete at least 60 degree-applicable units with a 2.0 grade point average.
4. Complete at least 12 units at Ohlone College.

**Requirements for Certificate of Achievement:**
1. Complete Major Field courses.
2. Complete at least six units at Ohlone College.
3. 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
- **Major Field Electives** 3

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:

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

Requirements for Certificate of Achievement:

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

### MAJOR FIELD

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

### SUPPORTING COURSES (Minimum six units required)

- **CNET-195A-195D** Internship 1-4

Choose 2-5 units from the following:

- **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-146** Introduction to UNIX/Linux
- **CNET-147** Shell Programming
- **CNET-149** Perl Programming
- **CNET-158** Wireless Networks
- **CNET-160A** Microsoft Client Operating Systems
- **CNET-162A** Microsoft Server Operating Systems
- **CNET-162B** Windows Network Infrastructure Administration

**continued**
## Option #2 – Computer Programming (Internet/Web Programming)

<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-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>
<tr>
<td></td>
<td></td>
<td>34-35</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.)
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 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.

EARLY CHILDHOOD STUDIES

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

CNET-105 PC Hardware and Software 4
CNET-150 Network Operating Systems 4
CNET-152 Data Communications (Network +) 2
CNET-158 Wireless Networks 4
CNET-160A Microsoft Client Operating Systems 2
CNET-161A Desktop Support I - Supporting Users 2
CNET-161B Desktop Support II - Supporting Applications 2
CNET-162A Microsoft Server Operating Systems 2
ENGL-156 Introduction to Report and Technical Writing OR 3
SPCH-115 Career Communication (3)

SUPPORTING COURSES (Minimum six units required)

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

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

CNET-101 Introduction to Computers and Information Technology
CNET-140A Linux Installation and Configuration
CNET-140B Linux System Administration
CNET-142A Linux Networking
CNET-142B Linux Security
CNET-146 Introduction to UNIX/Linux
CNET-147 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-162B Windows Network Infrastructure Administration
CNET-162C Planning a Microsoft Windows Networks Infrastructure
CNET-164A Designing Microsoft Directory Services Infrastructure
CNET-165A Designing a Secure Microsoft Windows Network
CNET-165B Microsoft Internet Security Server (IIS)
CNET-167A Network Application Administration I – Email (Exchange)
CNET-168A Network Application Administration II – Database (SQL)
CNET-170 Network Security

Supporting Courses

Select 6-8 additional units in Early Childhood Studies to complete Major Field requirement. For an option, select from the categories provided.

ECS-300 Introduction to Early Childhood Studies 4
ECS-301 Early Childhood Growth and Development 3
ECS-302 Introduction to Early Childhood Curriculum 4
ECS-303 Child, Family, and Community 3
ECS-304 Observation and Assessment of Young Children 4
ECS-305 Health and Safety Practices in Programs for Young Children 3
ECS-306 Guidance and Discipline of Young Children 3
ECS-307A-C Practicum Working with Young Children 3-5
The State of California, Commission on Teacher Credentialing, requires a specialization of 6-8 units in a specific area to meet the qualifications for the Master Teacher level of the Child Development Permit. These options have been designed to meet the needs reflected by the community. Students may create their own specialization. Check with the ECS Professional Development Coordinator at (510) 979-7496 for information.

**ECS Options:** The following options meet the requirements of the Commission on Teacher Credentialing for a specialization. To meet the Master Teacher requirements students must complete six units in a specialized field and complete ECS-322, Mentoring and Supervision in Early Childhood Programs.

The State of California, Commission on Teacher Credentialing, requires a specialization of 6-8 units in a specific area to meet the qualifications for the Master Teacher level of the Child Development Permit. These options have been designed to meet the needs reflected by the community. Students may create their own specialization. Check with the ECS Professional Development Coordinator at (510) 979-7496 for information.

**Family Child Care**
- ECS-320 Introduction to Family Child Care Homes 1
- ECS-321 Parenting 3
- ECS-322 Second Helping for Family Childcare Providers 2

**Infant and Toddler**
- ECS-317 Infant and Toddler Development and Care 3
- ECS-323 Advanced Training in Infant-Toddler Care 3

**Administrative (Required for Site Supervisor and Program Directors)**
- ECS-308 Administration of Programs for Young Children 3
- ECS-321 Supervision in Early Childhood Programs 3
- ECS-322 Mentoring and Supervision in Early Childhood Programs 2

**Family and Community Partnership**
- ECS-309 Cultural Diversity in Programs for Young Children 3
- ECS-314 Parenting 3

**Creative Activities**
- ECS-310 Music and Movement Curriculum for Young Children 3
- ECS-316 Observation and Assessment of Young Children 4
- ECS-325 Children with Special Needs in Programs for Small Children 3

**School Age Programs**
- ECS-317 School Age Child Development 3
- ECS-328 Curriculum for the School Age Child 3

**Entertainment Design and Technology**

**AA Degree**

**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) Complete at least six units at Ohlone College.
- c) Maintain a 2.0 grade point average in Major Field courses and one of the six option areas.

**Major Field**

| ART-104A | 2D Design OR | 3 |
| ID-155A | Architectural Drafting | 3 |
| CS-101 | Introduction to Computers and Information Technology | 3 |
| TD-100 | Survey of the Arts | 3 |
| TD-150 | Technical Theatre | 3 |
| TD-152 | Introduction to Lighting and Sound | 3 |
| TD-170 | Survey of Entertainment Design | 3 |
| TD-176 | Internship | 1-3 |

<table>
<thead>
<tr>
<th>Option 1: Stage Craft</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-142</td>
</tr>
<tr>
<td>TD-180</td>
</tr>
<tr>
<td>CS-152</td>
</tr>
<tr>
<td>CS-180</td>
</tr>
<tr>
<td>TD-153</td>
</tr>
<tr>
<td>TD-161-164</td>
</tr>
<tr>
<td>TD-171</td>
</tr>
<tr>
<td>TD-178</td>
</tr>
<tr>
<td>WEX-195</td>
</tr>
</tbody>
</table>

**Welding Competency**

*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 |
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 (Network+) 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 (Network+) 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 (Network+) 2
TD-161-164 Stagecraft Lab (Theatre, Television, Dance) 1-4
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

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 4
ART-103B Survey of World Art History-14th Century Through 20th Century (4)
ART-104A 2D Design 3
ART-104C Color 3
ART-106A Descriptive Drawing 3
ART-133A Black and White Photography OR 3
ART-134A Basic Color Photography OR (3)
ART-139A Digital Photography (2)
GA/ART-109A Beginning Graphic Design I 3
GA/ART-109B Beginning Graphic Design II 3
GA/ART-110A Advanced Graphic Design I 3
GA/ART-110B Advanced Graphic Design II 3
GA/ART/CAOT-161A Digital Graphics I 4
GA/ART/

SUPPORTING COURSE

JOUR-146-148 Photography/Graphic Arts Newspaper Staff 1-3
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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-104B</td>
<td>3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-104C</td>
<td>Color</td>
<td>3</td>
</tr>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-108</td>
<td>Perspective Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-150A</td>
<td>Interior Design Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-150B</td>
<td>Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-151</td>
<td>Visualization and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-153</td>
<td>History of Decorative Arts</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-154</td>
<td>Contemporary Home Design OR</td>
<td>2</td>
</tr>
<tr>
<td>ID/ART-159A</td>
<td>Applied Design: Residential Lighting AND</td>
<td>1</td>
</tr>
<tr>
<td>ID/ART-159B</td>
<td>Applied Design: Color for the Home</td>
<td>1</td>
</tr>
<tr>
<td>ID/ART-155A</td>
<td>Architectural Drafting for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-155B</td>
<td>CAD for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-156</td>
<td>Architectural Modelmaking for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-157</td>
<td>Professional Practice for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-158</td>
<td>Textiles</td>
<td>3</td>
</tr>
</tbody>
</table>

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>41</td>
</tr>
</tbody>
</table>

SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-103A</td>
<td>Survey of World Art History -Prehistoric Through 1300 C.E. OR</td>
<td>4</td>
</tr>
<tr>
<td>ART-103B</td>
<td>Survey of World Art History-14th Century Through 20th Century</td>
<td>4</td>
</tr>
</tbody>
</table>

The courses listed above are part of the special application only curriculum for the Interpreter Preparation Program (IPP). Other courses are open to students not in the Interpreter Preparation Program and are offered regularly. Please refer to a current Ohlone Class Schedule or the Ohlone College Deaf Center Web page at http://www.ohlone.edu/instr/div_deaf/ipp/.

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 coursework to waive this requirement:
   a. Eligibility for English 101A is determined by the placement test scores OR completion of English 151B with a grade of C or better OR completion of an equivalent course.
   b. Eligibility for English 163 is determined by the placement test scores OR completion of English 162 with a grade of C or better.

2. Upon completion of #1 students must pass an ASL/English fluency evaluation by submitting a formal application to the IPP. All applicants must be evaluated regardless of previous course work.

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>

|        |                          | 46    |

The courses listed above are part of the special application only curriculum for the Interpreter Preparation Program (IPP). Other courses are open to students not in the Interpreter Preparation Program and are offered regularly. Please refer to a current Ohlone Class Schedule or the Ohlone College Deaf Center Web page at http://www.ohlone.edu/instr/div_deaf/ipp/.
JOURNALISM

AA Degree
and
Certificate of Achievement Program

This curriculum is designed to offer students an opportunity for learning writing techniques that can be applied to commercial publications, photojournalism, public relations, advertising, etc. Journalism students become involved in production of the student newspaper, the Monitor. This award-winning publication presents the opportunity to write, edit, design, and finally prepare a publication for distribution throughout the campus community.

Requirements for AA Degree:
a) Complete 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.

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

CNET-146 Introduction to UNIX/Linux 3
CNET-150 Network Operating Systems 4
CNET-152 Data Communications (Network+) 2
CNET-157 TCP/IP and Internetworking 3
CNET-160A Microsoft Client Operating Systems 2
CNET-162A Microsoft Server Operating Systems 2
CNET-162B Windows Network Infrastructure Administration 2
CNET-162C Planning a Microsoft Windows Networks Infrastructure 2
CNET-164A Microsoft Directory Services 2
CNET-164B Designing Microsoft Windows Directory Services Infrastructure 2
CNET-165A Designing a Secure Microsoft Windows Network 2
ENGL-156 Introduction to Report and Technical Writing OR 3
SPCH-115 Career Communication (3)

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

CNET-146 Introduction to UNIX/Linux 3
CNET-150 Network Operating Systems 4
CNET-152 Data Communications (Network+) 2
CNET-157 TCP/IP and Internetworking 3
CNET-160A Microsoft Client Operating Systems 2
CNET-162A Microsoft Server Operating Systems 2
CNET-162B Windows Network Infrastructure Administration 2
CNET-162C Planning a Microsoft Windows Networks Infrastructure 2
CNET-164A Microsoft Directory Services 2
CNET-164B Designing Microsoft Windows Directory Services Infrastructure 2
CNET-165A Designing a Secure Microsoft Windows Network 2
ENGL-156 Introduction to Report and Technical Writing OR 3
SPCH-115 Career Communication (3)

SUPPORTING COURSES (Minimum six units required)
Choose 1-4 units from the following: 1-4
CNET-195A 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 Shell Programming
CNET-149 Perl Programming
CNET-155A LAN Network Design
CNET-155B Routing Configuration and Routing
CNET-156A Routing and Switching
CNET-156B WAN Design and Support
CNET-158 Wireless Networks
CNET-165B Microsoft Internet Security Server (IIS)
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

continued

2006-2007 OHlONE COLLEGE CATALOG
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 (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>
</tr>
</tbody>
</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>

10

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 (Network+)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>LAN Network Design</td>
<td>3</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Router Configuration and Routing</td>
<td>3</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</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</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</td>
<td>(2)</td>
</tr>
<tr>
<td>CNET-140B</td>
<td>Linux System Administration</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>Shell Programming</td>
<td>(4)</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td>(3)</td>
</tr>
</tbody>
</table>

20-30

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></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</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-149</td>
<td>Perl Programming</td>
<td></td>
</tr>
<tr>
<td>CNET-158</td>
<td>Wireless Networks</td>
<td></td>
</tr>
<tr>
<td>CNET-162C</td>
<td>Planning a Microsoft Windows Networks</td>
<td></td>
</tr>
<tr>
<td>CNET-164B</td>
<td>Designing Microsoft Windows Directory</td>
<td></td>
</tr>
<tr>
<td>CNET-165A</td>
<td>Designing a Secure Microsoft Windows</td>
<td></td>
</tr>
</tbody>
</table>

2006-2007 OHLONE COLLEGE CATALOG continued
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 2
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

SUPPORTING COURSES

BIOL-103A Human Anatomy and Physiology AND 4
BIOL-103B Human Anatomy and Physiology OR 4
BIOL-104 Basic Human Anatomy and Physiology AND 4
PTA-120 Anatomy of Bio-Mechanics 3
PTA-119/PE-256 Sports Performance Testing 2
PSY-108 A Survey of Human Development 3

REAL ESTATE SALES BROKER
AA Degree

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

BA-106 Applied Accounting 3
RE-121 Real Estate Principles 3
RE-122 Real Estate Practice 3
RE-124 Legal Aspects of Real Estate 3
RE-126 Real Estate Finance 3
RE-128 Real Estate Appraisal 3
RE-149 Real Estate Property Management 3

SUPPORTING COURSES

BA-102A Principles of Economics-Macroeconomics 3
BA-123 Math for Accounting and Business 3
BA-141A Business Law 3
CAOT-153 Introduction to Internet 1
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. Most classes are held on the Fremont campus. 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 clinical 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 conditions.

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, L VNRN, 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; (213) 363-5555; www.nlnc.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

NUR-101 Nursing Theory and Communication 4.5
NUR-102 Assessment and Surgical I 4.5
NUR-103 Community I and Medical Surgical II 5
NUR-104 Maternal-Child Care 5
NUR-105 Mental Health and Gerontological Care 5
NUR-106 Community II and Medical Surgical III 5
NUR-107 Medical Surgical IV and Rehabilitation 5
NUR-108 Clinical Preceptorship 3.5
NUR-109 Community Synthesis 1.5

SUPPORTING COURSES

BIOL-103A Human Anatomy and Physiology 4
BIOL-103B Human Anatomy and Physiology 4
BIOL-106 Microbiology 5
CFS-109 Nutrition 3
PSY-108 A Survey of Human Development 3

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 cardiopulmonary and pulmonary systems. 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 (BRT) 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 on 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 4
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 1.5
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

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 Para-professional Counseling (3)
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.

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

CNET-101 Introduction to Computers and Information Technology 3
CNET-105 PC Hardware and Software 4
CNET-146 Network Operating Systems 4
CNET-152 Data Communications (Network+*) 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
S PCH-115 Career Communication (3)

SUPPORTING COURSES (Minimum six units required)

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

Choose 2-5 units from the following: 2-5
CNET-140A Linux Installation and Configuration
CNET-140B Linux System Administration
CNET-142A Linux Networking
CNET-142B Linux Security
CNET-147 Shell Programming 4
CNET-149 PERL Programming 4
CNET-150 Network Operating Systems 4
S PCH-115 Career Communication 3

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 Shell Programming 4
CNET-149 PERL Programming 4
CNET-150 Network Operating Systems 4
S PCH-115 Career Communication 3

AREA SPECIALIZATIONS

Complete one course from each of the following Area Specializations.

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

AND Programming Elective 4
CNET-137 Introduction to SQL and PL/SQ1 Programming (4)
CNET-182 Advanced Routing (4)
CS-102 Introduction to Computer Programming Using C++ (4)
CS-124 Advanced Programming with Data Structures (4)
CS-170 Java Programming (4)

continued
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 17 units and allow students to finish the program in a shorter period of time. In order to earn a Certificate of Completion students must: satisfactorily complete the courses listed for the particular certificate, complete at least 50% of the required units at Ohlone College, 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 3
ANTH-101L Physical Anthropology Laboratory 1
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)

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 3
ANTH-101L Physical Anthropology Laboratory 1
ANTH-102 Cultural Anthropology 3
BIOL-105 Heredity, Evolution, and Society 3
BIOL-130 Introduction to Biology 4
GEOL-103 Palaeontology and Dinosaurs 3

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 1500 C.E. 4
ART-103B Survey of World Art History-14th Century through 20th Century 4
ART-117A Museum and Gallery Techniques 2
ART-153 History of Decorative Arts 3

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

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

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-132/MUS-113</td>
<td>Studio Recording</td>
<td>3</td>
</tr>
<tr>
<td>TD-152</td>
<td>Introduction to Lighting and Sound</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/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>

---

**BALETT 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-141A</td>
<td>Introduction to Ballet AND</td>
<td>2</td>
</tr>
<tr>
<td>TD-141B</td>
<td>Intermediate Ballet (taken twice) OR</td>
<td>4</td>
</tr>
<tr>
<td>TD-141B</td>
<td>Intermediate Ballet (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 and Sound</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><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

---

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-101B</td>
<td>Principles of Biology - Organisms and Systems</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Choose one of the following courses:</strong></td>
<td></td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry OR</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-121</td>
<td>Introduction to Physics II OR</td>
<td>(4)</td>
</tr>
<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td><strong>Choose two units in Biology from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>BIOL-131D</td>
<td>Review of Biological Concepts</td>
<td>1</td>
</tr>
<tr>
<td>BIOL-201</td>
<td>Special Projects</td>
<td>1</td>
</tr>
<tr>
<td>BIOL-202</td>
<td>Special Projects</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-120</td>
<td>Introduction to Scanning Electron Microscopy (SEM)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16-17</strong></td>
</tr>
</tbody>
</table>

---

**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.

<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></td>
<td><strong>Choose one course from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>BIOL-106</td>
<td>Microbiology OR</td>
<td>5</td>
</tr>
<tr>
<td>BIOL-107</td>
<td>Microbiology and Infectious Diseases</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15-17</strong></td>
</tr>
</tbody>
</table>
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-130 Introduction to Biology OR 4
- BIOT-105 Introduction to Cell and Molecular Biology (4)

Complete at least three of the following courses:
- BIOL-105 Heredity, Evolution, and Society 3
- BIOL-107 Microbiology and Infectious Diseases 3
- BIOL-108 Human Ecology 3
- BIOL-109 Biology of Sexual Reproduction 3

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 greenhouse facility, and solution media preparation. A goal of the Biotechnology: Research Associate/Biotechnician Certificate Program is to prepare students for entry-level and other positions in biotechnology and pharmaceutical companies.

- BIOT-105 Introduction to Cell and Molecular Biology 4
- BIOT-110A* Biotechnology Lab I 3
- BIOT-110B Advanced Biotechnology Theory and Applications 3
- BIOT-111* Advanced Biotechnology Lab 2
- BIOT-121 Biotechnology Careers 1
- CHEM-109 Biochemistry for Health Science and Biotechnology 4

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: ENTERTAINMENT TELEVISION

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

- BRDC-135 After Effects for Television 3
- BRDC-136 Digital Video and Lighting 3
- BRDC-137 Video Field Production 3
- BRDC-138 AVID Editing OR 3
- BRDC-134 Final Cut Pro Editing (3)
- BRDC-180 Television Series Production 3

BROADCASTING: LIGHTING AND VIDEO FOR TELEVISION

This certificate is for students interested in working in the film industry and/or long-form documentary production.

- BRDC-136 Digital Video and Lighting 3
- BRDC-137 Video Field Production 3
- BRDC-138 AVID Editing OR 3
- BRDC-134 Final Cut Pro Editing (3)
- BRDC-139 Advanced AVID Editing 3
- BRDC-180 Television Series Production 3

BROADCASTING: LIVE TELEVISION PRODUCTION

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

- BRDC-136 Digital Video and Lighting 3
- BRDC-141 Live TV Newscast 3
- BRDC-142 Live TV Studio Production 3
- BRDC-148 Directing Live Television 3
- JOUR-155 Mass Media and Society 3

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.

- BRDC-136 Digital Video and Lighting 3
- BRDC-137 Video Field Production 3
- BRDC-138 AVID Editing 3
- BRDC-139 Advanced AVID Editing 3
- BRDC-141 Live TV Newscast 3

BROADCASTING: MUSIC VIDEO PRODUCTION

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

- BRDC-135 After Effects for Television 3
- BRDC-136 Digital Video and Lighting 3
- BRDC-138 AVID Editing 3
- BRDC-139 Advanced AVID Editing 3
- BRDC-150 Music Video Production 3
**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>

**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>
</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 Broadcasting</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>
</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>
</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>
</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>
</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>
</tbody>
</table>

Photo courtesy of College Relations
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.

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>3</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Router Configuration and Routing</td>
<td>3</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>10</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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-103</td>
<td>Fundamentals of Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS-112A</td>
<td>Recording with Pro Tools</td>
<td>3</td>
</tr>
<tr>
<td>MUS-112B</td>
<td>Pro Tools and MIDI</td>
<td>3</td>
</tr>
<tr>
<td>MUS-113</td>
<td>Studio Recording</td>
<td>3</td>
</tr>
<tr>
<td>MUS-114</td>
<td>Create a CD</td>
<td>2</td>
</tr>
<tr>
<td>MUS-116</td>
<td>Sound Reinforcement and Live Recording</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

COMPUTER AND INFORMATION LITERACY

This certificate will provide literacy in the area of computers and information technology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
<td>1</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>
<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-116</td>
<td>C++ Programming: An Object-Oriented Language OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming OR</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-171</td>
<td>Advanced Java Programming</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-118</td>
<td>Introduction to Assembly Language Programming OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-124</td>
<td>Advanced Programming with Data Structures</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

COMPUTER PROGRAMMING

Upon completion of the Computer Programming Certificate Program 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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-116</td>
<td>C++ Programming: An Object-Oriented Language OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming OR</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-171</td>
<td>Advanced Java Programming</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-118</td>
<td>Introduction to Assembly Language Programming OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-124</td>
<td>Advanced Programming with Data Structures</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>
## COMPUTER STUDIES PROFICIENCY

This certificate prepares students with an introduction to office skills.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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-156</td>
<td>Microsoft Publisher</td>
<td>.5</td>
</tr>
<tr>
<td>CAOT-164</td>
<td>Introduction to FrontPage</td>
<td>.5</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-193A</td>
<td>Beginning Excel</td>
<td>.5</td>
</tr>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

## DATABASE ADMINISTRATION

This certificate prepares students in Oracle database administration.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-135</td>
<td>Database Fundamentals I: Database Architecture and Administration</td>
<td>4</td>
</tr>
<tr>
<td>CNET-136</td>
<td>Database Fundamentals II: Database Backup and Recovery</td>
<td>4</td>
</tr>
<tr>
<td>CNET-137</td>
<td>Introduction to SQL and PL/SQL Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

## 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-191</td>
<td>Human Potential Seminar</td>
<td>2</td>
</tr>
<tr>
<td>DEAF-311</td>
<td>Introduction to American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-312</td>
<td>Linguistics of ASL</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-330</td>
<td>Educating the Deaf</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-331</td>
<td>Counseling the Deaf</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-332</td>
<td>Development of the Deaf Child</td>
<td>3</td>
</tr>
</tbody>
</table>

## 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-104B</td>
<td>3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-104C</td>
<td>Color</td>
<td>3</td>
</tr>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-106B</td>
<td>Intermediate Descriptive Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

## 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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>CA-160A</td>
<td>Computer Graphics I</td>
<td>4</td>
</tr>
<tr>
<td>CA-160B</td>
<td>Computer Graphics II OR</td>
<td>4</td>
</tr>
<tr>
<td>CA-161A</td>
<td>Digital Graphics I</td>
<td>(2)</td>
</tr>
</tbody>
</table>

## 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ID-158</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>TD-154</td>
<td>Theatrical Makeup for Stage, TV, and Dance</td>
<td>2</td>
</tr>
<tr>
<td>TD-155A</td>
<td>Costume Construction I</td>
<td>3</td>
</tr>
<tr>
<td>TD-155B</td>
<td>Costume Construction II</td>
<td>3</td>
</tr>
<tr>
<td>TD-160A – 160A2</td>
<td>Production Lab</td>
<td>.5-2</td>
</tr>
</tbody>
</table>

## DATA COMMUNICATIONS AND INTERNETWORKING

This certificate prepares students with an introduction to office and computer program data structures in C++ 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-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-152</td>
<td>Data Communications (Network+)</td>
<td>2</td>
</tr>
</tbody>
</table>

## DATA COMMUNICATIONS AND WEB PROGRAMMING

This certificate will provide students with information and skills in data communications and Internet programming.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
<td>1</td>
</tr>
<tr>
<td>CS-152</td>
<td>Data Communications (Network+)</td>
<td>2</td>
</tr>
<tr>
<td>CS-175</td>
<td>Script Technology for Web Development</td>
<td>4</td>
</tr>
<tr>
<td>CS-176</td>
<td>CGI Programming with PERL for Web Development</td>
<td>3</td>
</tr>
</tbody>
</table>

## DATA PUBLISHING

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-191</td>
<td>Human Potential Seminar</td>
<td>2</td>
</tr>
<tr>
<td>DEAF-311</td>
<td>Introduction to American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-312</td>
<td>Linguistics of ASL</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-330</td>
<td>Educating the Deaf</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-331</td>
<td>Counseling the Deaf</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-332</td>
<td>Development of the Deaf Child</td>
<td>3</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-104B</td>
<td>3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-104C</td>
<td>Color</td>
<td>3</td>
</tr>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-106B</td>
<td>Intermediate Descriptive Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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>CA-160A</td>
<td>Computer Graphics I</td>
<td>4</td>
</tr>
<tr>
<td>CA-160B</td>
<td>Computer Graphics II OR</td>
<td>4</td>
</tr>
<tr>
<td>CA-161A</td>
<td>Digital Graphics I</td>
<td>(2)</td>
</tr>
</tbody>
</table>
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

12

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 1  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

12

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)  3
ART-108  Perspective Drawing  3

12

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 AND  3
GEOG-101L  Physical Geography Laboratory  1
OR
GEOL-101  Introduction to Geology AND (3)
GEOL-101L  Physical Geology Laboratory (1)

17

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

13

*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.

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-111  Electricity and Magnetism  4

Choose one course from the following:
ENGI-120  Engineering Mechanics – Statics OR  3
ENGI-130  Electric Circuit Analysis OR (4)
ENGI-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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL-1B2</td>
<td>Integrated English Skills for Non-Native Speakers, Level II</td>
<td>6</td>
</tr>
<tr>
<td>ESL-1B-2R</td>
<td>Basic Reading Skills for Second Language Learners</td>
<td>3</td>
</tr>
<tr>
<td>SPCH/ESL-151</td>
<td>Introduction to Speech Communication Skills OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH/TD-132</td>
<td>Voice and Diction</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-103A</td>
<td>Survey of World Art History-Prehistoric through 1300 C.E. or</td>
<td>4</td>
</tr>
<tr>
<td>ART-103B</td>
<td>Survey of World Art History – 14th Century through 20th Century</td>
<td>(4)</td>
</tr>
<tr>
<td>ART-104A</td>
<td>2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-107A</td>
<td>Life Drawing OR</td>
<td>3</td>
</tr>
<tr>
<td>ART-117A</td>
<td>Museum and Gallery Techniques (Exhibition Production)</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12-13</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-254</td>
<td>Fitness for Life</td>
<td>3</td>
</tr>
<tr>
<td>PE-256/PTA-119</td>
<td>Sports Performance Testing OR</td>
<td>2</td>
</tr>
<tr>
<td>HLTH-101</td>
<td>Health Science</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-382</td>
<td>Clinical Experiences in Sports Medicine</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14-15</td>
</tr>
</tbody>
</table>

**FORENSICS**

This certificate provides students with training in speaking competitively.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-110A3</td>
<td>Forensics Workshop OR</td>
<td>6</td>
</tr>
<tr>
<td>SPCH-112A3</td>
<td>Argumentation and Debate Workshop</td>
<td>(6)</td>
</tr>
<tr>
<td>SPCH/TD-132</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG-121</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
<td>2</td>
</tr>
<tr>
<td>GEOG-122</td>
<td>Environmental GIS</td>
<td>2</td>
</tr>
<tr>
<td>GEOG-123</td>
<td>GIS Projects</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9-10</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-108</td>
<td>Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-101L</td>
<td>Physical Geography Laboratory</td>
<td>(1)</td>
</tr>
<tr>
<td>GEOL-101</td>
<td>The World’s Nations</td>
<td>(3)</td>
</tr>
<tr>
<td>GEOL-101L</td>
<td>Introduction to Geology AND</td>
<td>(3)</td>
</tr>
<tr>
<td>RE-122</td>
<td>Real Estate Practice</td>
<td>(3)</td>
</tr>
<tr>
<td>SOC-102</td>
<td>Social Problems of a Diverse Society</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-101L</td>
<td>Physical Geography Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOG-104</td>
<td>The World’s Nations</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-101</td>
<td>Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-101L</td>
<td>Physical Geography Laboratory</td>
<td>1</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>BIOL-108</td>
<td>Human Ecology OR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-140</td>
<td>Sierra Nevada Natural History</td>
<td>3</td>
</tr>
</tbody>
</table>

---

### GEOLOGY

This Certificate of Completion signifies that students have received basic knowledge in geological sciences and skills, which facilitate paraprofessional employment such as geological technician and geological field assistant. It also provides a good foundation for continued study in the field of geology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG-121</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
<td>2</td>
</tr>
<tr>
<td>GEOG-101</td>
<td>Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-101L</td>
<td>Physical Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOG-102</td>
<td>Introduction to Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-102L</td>
<td>Oceanography Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOG-103</td>
<td>Paleontology and Dinosaurs</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-103L</td>
<td>Paleontology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

---

### GLASS

The Glass Certificate of Completion signifies that students have acquired skills in the fundamentals of glass design. Additional emphasis is placed upon ceramics or contemporary forms of sculpture. This certificate provides a firm foundation for continued study in the field of glass design.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-105A</td>
<td>Design Through Illumination</td>
<td>3</td>
</tr>
<tr>
<td>ART-105B</td>
<td>Advanced Glass Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART-105C</td>
<td>3D Glass</td>
<td>3</td>
</tr>
<tr>
<td>ART-116A</td>
<td>Basic Sculpture OR</td>
<td>3</td>
</tr>
<tr>
<td>ART-121A</td>
<td>Introductory Ceramics I</td>
<td>3</td>
</tr>
</tbody>
</table>

---

### GRAPHIC DESIGN

The Graphic Design Certificate of Completion signifies that students have received exposure to basic design, solutions, and presentation in Graphic Art. This certificate provides a firm foundation in Graphic Design, which can be used at printing companies and other media firms.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-109A</td>
<td>Beginning Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART-109B</td>
<td>Beginning Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART-110A</td>
<td>Advanced Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART-110B</td>
<td>Advanced Graphic Design II</td>
<td>3</td>
</tr>
</tbody>
</table>

---

### INTERCULTURAL COMMUNICATION

This certificate provides students with intercultural communication competence for business and personal relationships.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-105</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-122</td>
<td>Family Communication OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-110A1-A3</td>
<td>Forensics Workshop OR</td>
<td>1-3</td>
</tr>
<tr>
<td>SPCH-112A1-A3</td>
<td>Argumentation and Debate Workshop</td>
<td>(1-3)</td>
</tr>
</tbody>
</table>

---

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-104B</td>
<td>3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-104C</td>
<td>Color</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-150A</td>
<td>Interior Design Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-153</td>
<td>History of Decorative Arts</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-158</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-154</td>
<td>Contemporary Home Design OR</td>
<td>2</td>
</tr>
<tr>
<td>ID/ART-159A</td>
<td>Applied Design: Residential Lighting AND</td>
<td>(1)</td>
</tr>
<tr>
<td>ID/ART-159B</td>
<td>Applied Design: Color for the Home</td>
<td>(1)</td>
</tr>
</tbody>
</table>

---

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-108</td>
<td>Perspective Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-150A</td>
<td>Interior Design Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-151</td>
<td>Visualization and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td>3</td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID/ART-150A</td>
<td>Interior Design Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-155A</td>
<td>Architectural Drafting for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-155B</td>
<td>CAD for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID/ART-156</td>
<td>Architectural Modelmaking for Interior Design</td>
<td>3</td>
</tr>
</tbody>
</table>

### 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.

<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-142A</td>
<td>Introduction to Jazz Dance AND</td>
<td>2</td>
</tr>
<tr>
<td>TD-142B</td>
<td>Intermediate Jazz Dance AND</td>
<td>2</td>
</tr>
<tr>
<td>TD-142C</td>
<td>Advanced Jazz Dance OR</td>
<td>2</td>
</tr>
<tr>
<td>TD-142B</td>
<td>Intermediate Jazz Dance (taken twice) AND</td>
<td>(4)</td>
</tr>
<tr>
<td>TD-142C</td>
<td>Advanced Jazz 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 and Sound</td>
<td>3</td>
</tr>
<tr>
<td>TD-161</td>
<td>Stagecraft Lab (Theatre, Television, Dance)</td>
<td>1</td>
</tr>
</tbody>
</table>

### INTERNET APPLICATIONS DEVELOPMENT

This certificate provides students with knowledge and skills in Internet applications programming and development.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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 OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-178</td>
<td>XML</td>
<td>(3)</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-129</td>
<td>Introduction to Advertising</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-101A</td>
<td>Newswriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR/ART-145</td>
<td>Digital Photograpjism</td>
<td>2</td>
</tr>
<tr>
<td>JOUR/BRDC-155</td>
<td>Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-172</td>
<td>Newspaper Staff</td>
<td>3</td>
</tr>
</tbody>
</table>

### INTERPERSONAL COMMUNICATION

This certificate provides students with competence in communicating interpersonally in their personal and professional lives.

<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</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-110A1-A3</td>
<td>Forensics Workshop OR</td>
<td>1-3</td>
</tr>
<tr>
<td>SPCH-112A1-A3</td>
<td>Argumentation and Debate Workshop</td>
<td>(1-3)</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-172</td>
<td>Servlets and JSP</td>
<td>4</td>
</tr>
<tr>
<td>CS-173</td>
<td>J2EE and EJB</td>
<td>4</td>
</tr>
<tr>
<td>CS-178</td>
<td>XML</td>
<td>3</td>
</tr>
</tbody>
</table>

### LEADERSHIP COMMUNICATION

This certificate provides students with leadership and communication skills useful in their communities and careers.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD-160</td>
<td>Student Leadership in Higher Education</td>
<td>2</td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<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 OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-105</td>
<td>Intercultural Communication</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-110A1-A3</td>
<td>Forensics Workshop OR</td>
<td>2-3</td>
</tr>
<tr>
<td>SPCH-112A1-A3</td>
<td>Argumentation and Debate Workshop</td>
<td>(2-3)</td>
</tr>
</tbody>
</table>

### LEADERSHIP DEVELOPMENT

This certificate provides students with leadership and communication skills useful in their communities and careers.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD-160</td>
<td>Student Leadership in Higher Education</td>
<td>2</td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<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 OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-105</td>
<td>Intercultural Communication</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-110A1-A3</td>
<td>Forensics Workshop OR</td>
<td>2-3</td>
</tr>
<tr>
<td>SPCH-112A1-A3</td>
<td>Argumentation and Debate Workshop</td>
<td>(2-3)</td>
</tr>
</tbody>
</table>

---

2006-2007 OHLONE COLLEGE CATALOG
### 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>Course</th>
<th>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-144A</td>
<td>Introduction to Modern Dance AND</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 and Sound</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><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

### LINUX ADMINISTRATION

<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-157</td>
<td>TCP/IP and Internetworking</td>
<td>3</td>
</tr>
<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></td>
<td><strong>Total</strong></td>
<td><strong>14</strong></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>Course</th>
<th>Title</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-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-179</td>
<td>Introduction to Stage Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15.5-17</strong></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>Course</th>
<th>Title</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 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><strong>Total</strong></td>
<td><strong>14-16</strong></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>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-140</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>14</strong></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>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-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></td>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>
## .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</th>
<th>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>

## .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</th>
<th>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 OR</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>

## 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</th>
<th>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>1.5</td>
</tr>
<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
<td></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>

### 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</th>
<th>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>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</th>
<th>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></td>
</tr>
<tr>
<td>MUS-101</td>
<td>Introduction to Music - Western Classical Music AND</td>
<td>3 (0)</td>
</tr>
<tr>
<td>MUS-101L</td>
<td>Performance Attendance Lab</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></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</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-110L</td>
<td>Music Theory and Harmony</td>
<td>0</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</th>
<th>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></td>
</tr>
<tr>
<td>MUS-101</td>
<td>Introduction to Music - Western Classical Music AND</td>
<td>3 (0)</td>
</tr>
<tr>
<td>MUS-101L</td>
<td>Performance Attendance Lab</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></td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-116</td>
<td>Business English and Communication</td>
<td>4</td>
</tr>
<tr>
<td>CAOT-110A, B, or C</td>
<td>Beginning Keyboarding I, II, or III</td>
<td>1</td>
</tr>
<tr>
<td>CAOT-172A</td>
<td>Beginning Word</td>
<td>0.5</td>
</tr>
<tr>
<td>CAOT-172B</td>
<td>Intermediate Word</td>
<td>0.5</td>
</tr>
<tr>
<td>CAOT-187</td>
<td>PowerPoint Presentations</td>
<td>0.5</td>
</tr>
<tr>
<td>CAOT-193A</td>
<td>Beginning Excel</td>
<td>0.5</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-101</td>
<td>Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-101L</td>
<td>Physical Anthropology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL-130</td>
<td>Introduction to Biology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL-103</td>
<td>Paleontology and Dinosaurs</td>
<td>3</td>
</tr>
<tr>
<td>GEOL-103L</td>
<td>Paleontology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose one from the following:

- GEOG-101    | Physical Geography AND          | 3     |
- GEOG-101L   | Physical Geography Laboratory    | 1     |

**OR**

- GEOL-101    | Introduction to Geology AND     | (3)   |
- GEOL-101L   | Physical Geology Laboratory      | (1)   |

### ORAL INTERPRETATION

This certificate provides students with vocal training that is helpful for careers in theater, business, law, and education.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-110A1-A3</td>
<td>Forensics Workshop OR</td>
<td>1-3</td>
</tr>
<tr>
<td>SPCH-112A1-A3</td>
<td>Argumentation and Debate Workshop</td>
<td>(1-3)</td>
</tr>
<tr>
<td>SPCH/TD-130</td>
<td>Oral Interpretation of Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPCH/TD-132</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
</tbody>
</table>

### PHLEBOTOMY

The Health Sciences Division offers a certificate program in phlebotomy that meets all of the new 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH-110</td>
<td>Medical Terminology</td>
<td>2</td>
</tr>
<tr>
<td>AH-111</td>
<td>Medical Terminology</td>
<td>2</td>
</tr>
<tr>
<td>AH-117A</td>
<td>Basic Phlebotomy Training</td>
<td>2</td>
</tr>
<tr>
<td>AH-117B</td>
<td>Phlebotomy Skills Lab</td>
<td>0.5</td>
</tr>
<tr>
<td>AH-117C</td>
<td>Advanced Phlebotomy Training</td>
<td>1.5</td>
</tr>
<tr>
<td>AH-117D</td>
<td>Phlebotomy Externship</td>
<td>2</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-111A</td>
<td>Painting – Color and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ART-111B</td>
<td>Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART-112</td>
<td>Watercolor</td>
<td>3</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-133A</td>
<td>Black and White Photography OR</td>
<td>3</td>
</tr>
<tr>
<td>ART-133B</td>
<td>Advanced Black and White Photography</td>
<td>(3)</td>
</tr>
<tr>
<td>ART-134A</td>
<td>Basic Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART-139A</td>
<td>Digital Photography</td>
<td>2</td>
</tr>
<tr>
<td>ART-139B</td>
<td>Intermediate Digital Photography</td>
<td>2</td>
</tr>
</tbody>
</table>
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 form of research internships with various city, county, state, and private agencies and various technician positions in the fields of electrical and environmental technology.

- PHYS-108 Survey of Physics 3
- Choose one course from the following:
  - CHEM-101A General Chemistry OR
  - CHEM-106A Principles of Chemistry OR
  - CHEM-108 Survey of Chemistry (4)
- Choose one group from the following:
  - GEOL-101 Introduction to Geology AND
  - GEOL-101L Physical Geology Laboratory 1
  - OR
  - GEOL-102 Introduction to Oceanography AND
  - GEOL-102L Oceanography Laboratory (3)
- Choose one group from the following:
  - ASTR-101A General Astronomy of the Solar System AND
  - ASTR-102 General Astronomy Laboratory 1
  - OR
  - ASTR-101B General Astronomy Beyond the Solar System AND
  - ASTR-102 General Astronomy Laboratory (3)

15

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

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
- MUS-100L Performance Attendance Lab 0
- MUS-101 Introduction to Music - Western Classical Music AND (3)
- MUS-101L Performance Attendance Lab (0)
- OR
- MUS-102 Music Appreciation AND (3)
- MUS-102L Performance Attendance Lab (0)
- OR
- MUS-125 Rock Music Since 1970 (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.
REAL ESTATE SALES AGENT

This is the first certificate in a series of three. 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

12

REAL ESTATE SALES BROKER ASSOCIATE

This is the second certificate in a series of three. 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-120 Real Estate Appraisal 3
RE-149 Real Estate Property Management 3

15

SCULPTURE

The Sculpture Certificate of Completion signifies that students have received exposure to the contemporary forms of sculpture, glass design, casting, kiln work, sandblasting, laminating, and fabrication. This certificate provides a firm foundation in the field of art sculpture.

ART-105A Design Through Illumination 3
ART-116A Basic Sculpture 3
ART-116B Advanced Sculpture 3
ART-121A Introductory Ceramics I 3

12

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)

15

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

10-12

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.

CS-104A Visual Basic.NET Programming 4
CS-104B Advanced Visual Basic.NET Programming 4
CNET-162A Microsoft Server Operating Systems 2
CNET-162B Windows Network Infrastructure Administration 2
CNET-168A Network Application Administration II - Database 2
CS-212T Designing and Implementing SQL 2

16
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.

ID-155A Architectural Drafting for Interior Design 3
TD-150 Technical Theatre 3
TD-153 Scenic Painting 3
TD-161-164 Stagecraft Lab 1-4
TD-170 Survey of Entertainment Design 3

13-16

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.

TD-121C Dance Rehearsal and Performance 4
TD-121L Dance Rehearsal and Performance Lab 0
TD-143A Introduction to Tap AND 2
TD-143B Intermediate Tap AND 2
TD-143C Advanced Tap Dance OR 2
TD-143B Intermediate Tap (taken twice) AND (4)
TD-143C Advanced Tap Dance (2)
TD-160L Production Lab 0
TD-149 Choreography for Production 2
TD-152 Introduction to Lighting and Sound 3
TD-161 Stagecraft Lab (Theatre, Television, Dance) 1

16

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.

TD-152 Introduction to Lighting and Sound 3
TD-160A-160A2 Production Lab 1.5-2
TD-170 Survey of Entertainment Design 3
TD-171 3D Entertainment Design for Lighting 3
TD/BRDC-180 Television Series Production 3

12.5-14

3D MODELING AND ANIMATION

This certificate provides students with technical and aesthetic skills needed for animation and 3D modeling.

MM-102A Multimedia I 4
MM-115 3D Animation 3
MM-116 3D Modeling 3
MM-117 Advanced 3D Modeling and Animation 3

13

VB PROGRAMMING

This certificate prepares students with an introduction to office and Visual Basic.NET programming skills.

CS-101 Introduction to Computers and Information Technology 3
CS-101L Computer Applications 2
CS-104A Visual Basic.NET Programming 4
CS-152 Data Communications (Network+) 2

11

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.

MM-114 Textures for 3D 3
MM-115 3D Animation 3
MM-116 3D Modeling 3
MM-118 Introduction to Video Game Design 2
MM-119 Video Game Development (must be completed twice) 6

17

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 – Intermediate 2
MUS-162D Class Voice – Intermediate 2
MUS-166A Applied Music 1
MUS-166B Applied Music 1
**MUS-356, Choral Ensembles 3
367, 368, or 394

14

* Students may test out of Fundamentals by passing an exam.
** Students must take 3 classes for a total of 3 units.
VOCA L M U S I C P ERFORMAN CE: ADV A NCED

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, ** Choral Ensembles    3
367, 368, or 394

**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-170    XML    3

Choose 9-10 units from the following courses:

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)

9-10

10

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

16

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.

CNET-140A    Linux Installation and Configuration    2
CNET-140B    Linux System Administration    2
CNET-150    Network Operating Systems    4
CNET-160A    Microsoft Client Operating Systems    2
CNET-162A    Microsoft Server Operating Systems    2

Choose one course from the following:

CS-104D    Web Services for .NET    (4)
CNET-137    Introduction to SQL and PL/SQL Programming    (4)
CNET-157    TCP/IP and Internetworking    (3)

3-4

15-16

WEB PAGE DESIGN

Upon completion of the Web Page Design Certificate students will have developed and designed Web sites.

MM-102A    Multimedia I    4
MM-104    Advanced Interactivity in Flash    3
MM-105    Web Site Design    4
MM-162    XHTML    4

15

15

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:

CNET-160A    Microsoft Client Operating Systems    2
CNET-162A    Microsoft Server Operating Systems    2
CNET-162B    Windows Network Infrastructure Administration    2

Choose one course from the following:

CNET-165B    Microsoft Internet Security Server (IIS)    2
CNET-167A    Network Application Administration I - Email (exchange)    2
CNET-168A    Network Application Administration II - Database (SQL)    2

8
For network professionals Microsoft offers the Microsoft Certified Systems Engineer (MCSE) credential. MCSEs are qualified to effectively plan, implement, maintain, and support information systems in a wide range of computing environments using the Microsoft Windows 2003 Server and the Microsoft Back Office integrated family of server products.

CNET-160A Microsoft Client Operating Systems 2
CNET-162A Microsoft Server Operating Systems 2
CNET-162B Windows Network Infrastructure Administration 2
CNET-162C Planning a Microsoft Windows Networks Infrastructure 2
CNET-164A Microsoft Directory Services 2

Choose any two of the following courses:
CNET-164B Designing Microsoft Windows Directory Services Infrastructure 2
CNET-165A Designing a Secure Microsoft Windows Network 2
CNET-165B Microsoft Internet Security Server (IIS) 2
CNET-167A Network Application Administration I - Email (exchange) 2
CNET-168A Network Application Administration II - Database (SQL) 2

Total units: 14

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
DEAF-140A Lifeskills Mathematics I 2
DEAF-141A Workplace Communication I 3
DEAF-143 Deaf Vocational Awareness 2

Second Semester
DEAF-140B Lifeskills Mathematics II 2
DEAF-141B Workplace Communication II 3
DEAF-146 Work Experience Seminar 2

Third Semester
DEAF-145B Job Seeking Strategies for Deaf Students 3

Total units: 17

Transfer Day 2005, an annual event held each Fall at Ohlone to help students with their transfer decisions.
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. Maurice Najarro  
Accounting Faculty, Ohlone College

De-Hwei O'Shaughnessy  
Student, 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

James R. Berg  
Commander, Milpitas Police Department, City of Milpitas

Richard Cominos, Sr.  
Administration of Justice Faculty, Ohlone College

Gary Gee  
Chief of Police, BART Police Department

Rick Keller  
Superior Court Judge, Alameda County

Richard Klemmer  
Assistant District Attorney, Alameda County

Steven M. Osawa  
Chief Court Investigator, County of San Mateo, Hall of Justice

Charles Plummer  
Sheriff, Alameda County Sheriff’s Department

George Rodgers  
Geography Faculty, Ohlone College

Ray Samuels  
Chief of Police, City of Newark

Mikelyn Stacey  
Dean, Language Arts, Library, and Social Sciences, 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

Ron Wood  
California Department of Justice, POST Representative

Patricia Zajac  
Chair of Criminal Justice Department, California State University, East Bay
ALLIED HEALTH

Rudee Aguilar  
Lab Supervisor, Washington Hospital

Sharlene Limón, M.S., R.N.  
Dean, Health and Exercise Sciences, Ohlone College

Salim Rafidi, CLS  
Phlebotomy Program Director

Joann Wood, CLS  
Lab Supervisor (Retired)

BIOTECHNOLOGY

Mark Barnby  
Biology Faculty, Ohlone College

Fred Hempel  
Research Scientist, Mendel Biotechnology

Bob Lash  
VP Engineering, ViOptix Technologies, Inc.

Ravi Mistry  
Manager-HR, Legal, IP & Investor Relations, DiscoverA

Ron Quinta  
Dean, Math, Science, and Technology, Ohlone College

Robert Sakai  
Technology & Trade Director, EDAB

Derek Speck  
Economic Development Manager, City of Fremont

Ruth Welch  
Director, Organizational Development & Training, Abymex

Robert Wood  
Vice President of Operations, Inamed

BROADCASTING (TELEVISION)

Tony Bonilla  
Assistant News Director, KTVU TV

Belva Davis  
News Anchor, KRON TV

Peggy Grady  
Motion Picture Continuity Supervisor

Sam Goldman  
Sports Information Officer, San Francisco State University

Paul Hammans  
News Graphics Supervisor, NBC Nightly News

Gary Kauf  
Director, Television Operations; Ohlone College

Drake Silliman  
AVID Editor

BROADCASTING (RADIO)

Bob Dochterman  
Director, Radio Operations; Ohlone College

Gary Dove  
Assistant Promotions Manager, KISQ Radio

Lisa Foxx  
Air Personality, KYSR Radio

Robert Sean King  
Director of Internet Services, Clear Channel Broadcasting

Michael Martinez  
Music Director, KEZR Radio

Mark Pape  
Reporter/Anchor, Metro Networks

Dave Shakes  
President, Shakes Radio Consulting

Michael Stockwell  
Chief Engineer, KEZR Radio

Lisa St. Regis-Sturges  
Air Personality, Music Director, KISQ Radio

Rob Williams  
Syndicated Morning Personality, Entercom Broadcasting

BUSINESS SUPERVISION/ MANAGEMENT

Helmut Buchler  
Group Marketing Manager, Sun Microsystems

Amber Hatter  
Look Realty

Robert Lum  
Technical Training and Publication Services

Bob Parks  
Fricke-Parks Press

David Patrick  
Adjunct Faculty, Ohlone College

Evan Piercy  
Sun Micro Systems

Carl Smith  
Brokerage Firm

Nancy Smith  
BenefitNation, Inc.

Elisa Webb  
Adjunct Faculty, Ohlone College

Paula White  
American Cancer Society

COMPUTER APPLICATIONS AND OCCUPATIONAL TECHNOLOGY

Karen Ambus  
Executive Assistant, Hitachi Data Systems

Helmut Buchler  
Group Marketing Manager, Sun Microsystems

C.F. Kitty Cecil-Hunter  
Mission Valley ROP

Amber Hatter  
Look Realty

Robert Lum  
CEO, Lum Enterprises

David Patrick  
Adjunct Faculty, Ohlone College

Evan Piercy  
Project Management, Sun Microsystems

Carl Smith  
Brokerage Firm

Nancy Smith  
Database Commands Manager, BenefitNation, Inc.

Elisa Webb  
Industry Consultant, Adjunct Faculty, Ohlone College

Paula White  
Industry Consultant, American Cancer Society

COMPUTER SCIENCE

Judith Bettencourt  
Consultant

Kendall Casey  
Senior Research Engineer, SRI International

David Chu  
Computer Science Faculty, Ohlone College

Angela Corriere  
President, Strategic Computer Solutions

David R. Evans  
Retired, Alameda County Water District

Xisheng Fang  
Computer Science Faculty, Ohlone College

Yong Gao  
Computer Science Faculty, Ohlone College

Richard Grotegut  
Computer Science Faculty, Ohlone College

Alan Haffner  
Former Student, Ohlone College

Jeff Kuhlman  
Consultant, Savant Technology Group

Scott Mercer  
Network Manager, NUMMI

Adam Peck  
Emeritus Faculty, Ohlone College

Kathy Shaw  
Etrade, Lead Engineer

Greg White  
Adjunct Faculty, Ohlone College

George Wong  
Computer Science Faculty, Ohlone College

2006-2007 OHLONE COLLEGE CATALOG
DEAF STUDIES

Claire Ellis
Deaf Preparatory Program Faculty, Ohlone College

Alyce Lentz
Deaf Studies/ASL Faculty, Ohlone College

Joe McLaughlin
Dean, Deaf Studies and Special Services, Ohlone College

Steve Orman
Career Counselor, California School for the Deaf

Lian Osborne
Department of Rehabilitation

Kay Tschurek
Fremont Employment Development Department

DISABLED STUDENTS PROGRAM AND SERVICES

Martha Brown
Dean, Counseling, Ohlone College

Rosa Burciga
Special Services, Fremont Unified School District

Mary M. Durski
Transition Instructor, California School for the Blind

Jerry Egusa
Learning Disability Specialist, Chabot College

Fred Hilke
Professor and Counselor, Disabled Students Program and Services, Ohlone College

Kevin Kirk
High Tech Center/Access Specialist, Ohlone College

Nora Mukai-Rosenbaum
Rehabilitation Counselor, Department of Rehabilitation

Paula Schonacker
Learning Disabilities Specialist, Personal Development Faculty, Ohlone College

Theresa Woo
Rehabilitation Specialist, Department of Rehabilitation

EARLY CHILDHOOD STUDIES

John Bernard
Superintendent, Newark Unified School District

Tess Buenaventura
Fremont Montessori Schools

John Chavey
Faculty, California State University, East Bay

Janice Fonteno
Professional Development Coordinator, Ohlone College

Kathy Fox
Director, Tiny Tots

Linda Garbarino
Director, Educational Resources, Fremont Unified School District

Sandy Bennett
EOPS/CARE Program Coordinator, Ohlone College

Ravnie Clements
Graduate, Ohlone College

Lin Datz
Counselor, Mission Valley ROP

Roslyn Fuller
Community Member

Spergon Hunt
Community Member

Amy Lee
Attorney, Bay Area Legal Aid

May Lee
Housing Counselor, Fremont Housing Department

Marybeth McCarthy
Project Independence Director, Tri-City Homeless Coalition

Jim McNer
Counselor, Kennedy High School

GALLAUDET UNIVERSITY WESTERN REGIONAL CENTER

Robert J. Cordano, J.D.
Disability Services, Minneapolis, Minnesota

Kim Corwin
Parent Representative, Albuquerque, NM

Sheryl Emery
Director Deaf Access Center, Southfield, Michigan

Sandra Fisher
Phoenix Day School for the Deaf, Phoenix, Arizona

Marybeth Flaebhart
State Director of Special Education, Idaho Department of Education

Joan M. Forney
Superintendent, Illinois School for the Deaf

Claudia Gorden, J.D.
Member of the Deaf Community, Washington, DC

Cheryl DeConde Johnson
Senior Consultant for Deaf & Hard of Hearing Disabilities & Audiology Services

Mei Kennedy
Alumni, Kendall Demonstration Elementary School; Bethesda, Maryland

Annette Reichmann
Liaison/Director, Office of Special Institutions, U.S. Department of Education
Ralph Sedano  
Faculty, Arts & Sciences Division, Santa Fe Community College

Debra Zand  
Research Assistant Professor, Missouri Institute of Mental Health

---

GRAPHIC ARTS

Bunny Carter  
Professor, School of Art and Design, San José State University

David Chai  
Artist

John Clapp  
Artist

Tatiana Deogirikar  
Designer

Gus Fjelstrom  
Artist

Rebecca Fogg  
Computer Graphics Professional

Courtney Granner  
Professor, School of Art and Design, San José State University

Michael Henninger  
Professor, Department of Art, California State University, East Bay

Dave Hopkins  
Typesetter/Production, Image Setters

Pilar Lewis  
Multimedia Faculty, Ohlone College

Cynthia Luckoski  
Graphic Arts Faculty, Ohlone College

Joe Miller  
Artist

Paul Mueller  
Photography Faculty, Ohlone College

James Pacheco  
Designer

Elizabeth Shrank-Yapp  
Designer, Graphic Creations

Alvin Thompson  
Artist

---

INTERIOR DESIGN

Toni Berry  
IFDA

E. Tom Harland  
Art Faculty, Retired, Ohlone College

Jill Hornbeck  
Designer

Peter Jacobsen  
Architect, A.I.A.

Sharon D. Kasser  
ASID

Marge Ling  
CKD, CBD

---

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

Catherine Dubois  
Interpreter Coordinator, Laney College

Nancy Frishberg  
Author/Consultant

Nancy Gross Sager  
Deaf and Hard of Hearing Programs Consultant

Tom Holcomb  
Deaf Studies/ASL Faculty, Ohlone College

Sandra Klopping  
ASL Faculty, Ohlone College

Dan Langholz  
Certified Deaf Interpreter

Shelly Lawrence  
Interpreter Preparation Program Faculty, Ohlone College

Patty Lessard  
Interpreter, Ohlone College

Steve McCelland  
Bay Area Communication Access

Joe McLaughlin  
Dean, Deaf Studies and Special Services, Ohlone College

Sharon Neumann Solow  
Author/Consultant

Terry Tibble  
Director, Pleasanton Video Relay Center

Charlotte Tootman  
Adjunct Faculty, Ohlone College

David Weiss  
CBS Department Manager

---

MULTIMEDIA

Diana Bennett  
Multimedia Instructor, College of San Mateo

Bruce Carruthers  
DreamFire Enterprises

Justin Everett-Church  
Technical Yahoo! IMViroments

Diane Fenster  
Digital Photographer and Photo illustrator

Carlos Goulart  
Designer, Advertising Art & Design

Michael Henninger  
Professor, Department of Art, California State University, East Bay

Pilar Lewis  
Multimedia Faculty, Ohlone College

Cynthia Luckoski  
Graphic Arts Faculty, Ohlone College

Naomi Raine  
Trippe Studios

Derick Wilson  
Assistant Professor, Multimedia Studies, College of Marin

---

PHYSICAL THERAPIST ASSISTANT

Don Chu, PhD., PT  
PTA Adjunct Faculty, Ohlone College

Diane Collins  
Graduate, Ohlone College

Sheryl Einfalt, MPT  
PTA Program Director, Ohlone College

Michael Krinsky, M.D.  
Orthopedic Surgeon

Sharlene Limón  
Dean, Health and Exercise Sciences, Ohlone College

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.  
NeuCare Rehabilitation

Rodney Silveira, M.S., P.T.  
Owner, Neuro Sport Rehabilitation Associates

Leta Stagnaro, M.S., P.T.A.  
Dean, Newark Center for Health Sciences and Technology; Entrepreneurial Programs, Ohlone College

Jill Swearingen, 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

---

2006-2007 OHLONE COLLEGE CATALOG
REAL ESTATE

Lida Alegre  
Student, Ohlone College

Rick Arellano  
Real Estate Faculty, Ohlone College

Felicia Ballesteros  
Agent, Prudential Realty

Anthony Contreras  
Student, Ohlone College

Hilda Furtado  
Manager, Prudential Realty

Amber Hatter  
Broker, Look Realty

Felton Jackson  
Appraiser, Jackson Appraisals

Gordon Munoz  
Student, Ohlone College

Yukie Nakashima  
Agent, Residential Pacific Mortgage

Jerry Prosch  
Former Student, Ohlone College

Bertha Roman  
Student, Ohlone College

Miguel Velazco  
Agent, Remax Executive

RESPIRATORY THERAPIST

Brandy Burrows  
Manager, Respiratory Therapy Department, Alameda County Medical Center

Carol Couper  
Director, Respiratory Therapy Department, Regional Medical Center of San Jose

Jan Frega  
Director, Respiratory Therapy Services, Kindred Hospital of the Bay Area

Cheryl Frydel  
Director, Respiratory Therapy Department, Kaiser Permanent, Walnut Creek

Ann Gomez  
Manager, Respiratory Care, Children’s Hospital Medical Center

Robin Gordon  
Director, Cardiopulmonary Department, Eden Medical Center

Francis Johnson, M.D.  
Medical Director, Eden Medical Center and Ohlone College Respiratory Therapist Program

Kent Joraanstal  
Advisory Committee Chair, Director, Respiratory Care Services, Washington Hospital

Boyer Kuglen  
Manager, Cardiopulmonary Services, John Muir/Mount Diablo Health Care

Sharlene Limon, RN, MS  
Dean, Health and Exercise Sciences, Ohlone College

Carol McNamace-Cole  
Respiratory Therapy Faculty, Ohlone College

Janet Novak  
Director, Cardiopulmonary Services Department, Summit Medical Center

Niki Petersen  
Supervisor, Kaiser Permanent, Oakland

Paul Roggero  
Director, Respiratory Therapy Department, Kaiser Permanent, Oakland

Saira Sahnj-Rajim  
Manager, Respiratory Care Department, Alta Bates/Summit Medical Center

Tom Wagner  
Manager, Respiratory Therapy Department, Kaiser Permanent, Fremont and Hayward

Lillian Wilson  
Manager, Respiratory Therapy Department, Valley Care Hospital

Tim Winn  
Director, Respiratory Care, San Leandro Hospital

SMITH CENTER

COMMUNITY ADVISORY BOARD

Walter Birkedahl  
Dean, Fine Arts, Business, and Broadcasting, Ohlone College

Christopher Bouras  
Director, Theatre Operations, Ohlone College

Lila Bringhurst  
Community Arts Patron

Betty Cole  
Board Member, LOV

Fred Cutter  
Community Leader, Arts Patron

Nancy Cutter  
Community Leader, Arts Patron

Michael Damer  
Community Leader, Arts Patron

B. Douglas Hill  
Community Arts Patron

Eman Isadiar  
Fremont Symphony

Helen Jordan  
Arts Coordinator, City of Fremont

Fred Jueneeman  
Newark Arts Council

Lisa Lorenz  
Depot Cafe, Fremont

Nick Nardolillo  
Board of Trustees, Ohlone College

Mark Nelson  
Theatre Arts Faculty, Ohlone College

Shirley Sisk  
Community Leader, LOV Newark

Margaret Stamer  
Art Faculty, Art Gallery Director, Ohlone College

Margaret Thornbury  
Fremont Cultural Arts Council

Phil Zahorsky  
Music Faculty, Ohlone College

WOMEN IN ENGINEERING

Theresa Bradshaw  
Hardware Engineer, Radia Communications

Peggy Claassen, P.E.  
Associate Civil Engineer, City of Fremont

Miranda Cummings  
Civil Engineer, City of Fremont

Claire Delucchi  
Consultant

Julie Lassig  
Program Specialist, Women in Engineering & Technology

Linda Messia  
Math Faculty, Ohlone College

Gary Mishra  
Engineering Faculty, Ohlone College

Ron Quinata  
Dean, Math, Science, and Technology, Ohlone College

Felicita Saiz  
President, Global Institute for Technology & Engineering (GIFTE)

Lisa Stambaugh  
Independent Contractor

2006-2007 OHLONE COLLEGE CATALOG
HOW TO READ COURSE DESCRIPTIONS

Every course description includes the course name (the abbreviation of the department followed by the course number, eg. 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 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) will have that CAN 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, Instruction and Student Services/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
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.

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.

### OHLONE COURSES ARTICULATED THROUGH CAN

<table>
<thead>
<tr>
<th>CAN COURSE</th>
<th>OHLONE COURSE</th>
<th>CAN COURSE</th>
<th>OHLONE COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 2</td>
<td>AJ-101</td>
<td>FREN SEQ B</td>
<td>FREN-102A + FREN-102B</td>
</tr>
<tr>
<td>AJ 4</td>
<td>AJ-102</td>
<td>GEOG 2</td>
<td>GEOG-101</td>
</tr>
<tr>
<td>AJ 6</td>
<td>AJ-104</td>
<td>GEOG 4</td>
<td>GEOG-102</td>
</tr>
<tr>
<td>AJ 8</td>
<td>AJ-107</td>
<td>GOVT 2</td>
<td>PS-102</td>
</tr>
<tr>
<td>ANTH 2</td>
<td>ANTH-101</td>
<td>HIST 2</td>
<td>HIST-104A</td>
</tr>
<tr>
<td>ANTH 4</td>
<td>ANTH-102</td>
<td>HIST 4</td>
<td>HIST-104B</td>
</tr>
<tr>
<td>ANTH 6</td>
<td>ANTH-103</td>
<td>HIST 8</td>
<td>HIST-117A</td>
</tr>
<tr>
<td>ART 2</td>
<td>ART-103A</td>
<td>HIST 10</td>
<td>HIST-117B</td>
</tr>
<tr>
<td>ART 4</td>
<td>ART-103B</td>
<td>HIST SEQ A</td>
<td>HIST-104A + HIST-104B</td>
</tr>
<tr>
<td>ART 6</td>
<td>ART-121A</td>
<td>HIST SEQ B</td>
<td>HIST-117A + HIST-117B</td>
</tr>
<tr>
<td>ART 8</td>
<td>ART-106A</td>
<td>JOUR 2</td>
<td>JOUR-101A</td>
</tr>
<tr>
<td>ART 10</td>
<td>ART-111A</td>
<td>JOUR 4</td>
<td>JOUR-155</td>
</tr>
<tr>
<td>ART 12</td>
<td>ART-116A</td>
<td>MATH 2</td>
<td>MATH-156</td>
</tr>
<tr>
<td>ART 14</td>
<td>ART-104A</td>
<td>MATH 8</td>
<td>MATH-181</td>
</tr>
<tr>
<td>ART 16</td>
<td>ART-104B</td>
<td>MATH 12</td>
<td>MATH-166</td>
</tr>
<tr>
<td>ART 18</td>
<td>ART-133A</td>
<td>MATH 16</td>
<td>MATH-188</td>
</tr>
<tr>
<td>ART 24</td>
<td>ART-107A</td>
<td>MATH 18</td>
<td>MATH-101A</td>
</tr>
<tr>
<td>BIOL 2</td>
<td>BIOL-101A</td>
<td>MATH 20</td>
<td>MATH-101B</td>
</tr>
<tr>
<td>BIOL 14</td>
<td>BIOL-106</td>
<td>MATH 22</td>
<td>MATH-101C</td>
</tr>
<tr>
<td>BIOL SEQ A</td>
<td>BIOL-101A + BIOL-101B</td>
<td>MATH 24</td>
<td>MATH-104</td>
</tr>
<tr>
<td>BIOL SEQ B</td>
<td>BIOL-103A + BIOL-103B</td>
<td>MATH 26</td>
<td>MATH-103</td>
</tr>
<tr>
<td>BUS 2</td>
<td>BA-101A</td>
<td>MATH 34</td>
<td>MATH-167</td>
</tr>
<tr>
<td>BUS 4</td>
<td>BA-101B</td>
<td>MATH SEQ B</td>
<td>MATH-101A + MATH-101B</td>
</tr>
<tr>
<td>BUS 8</td>
<td>BA-141A</td>
<td>MATH SEQ C</td>
<td>MATH-101A + MATH-101B + MATH-101C</td>
</tr>
<tr>
<td>BUS SEQ A</td>
<td>BA-101A + BA-101B</td>
<td>MUS 2</td>
<td>MUS-110A</td>
</tr>
<tr>
<td>CHEM 2</td>
<td>CHEM-101A</td>
<td>MUS 4</td>
<td>MUS-110B</td>
</tr>
<tr>
<td>CHEM 4</td>
<td>CHEM-101B</td>
<td>MUS SEQ A</td>
<td>MUS-110A + MUS-110B</td>
</tr>
<tr>
<td>CHEM 6</td>
<td>CHEM-106A</td>
<td>PHIL 4</td>
<td>PHIL-106</td>
</tr>
<tr>
<td>CHEM 8</td>
<td>CHEM-106B</td>
<td>PHIL 6</td>
<td>PHIL-104</td>
</tr>
<tr>
<td>CHEM SEQ A</td>
<td>CHEM-101A + CHEM-101B</td>
<td>PHIL 8</td>
<td>PHIL-101</td>
</tr>
<tr>
<td>CHEM SEQ B</td>
<td>CHEM-106A + CHEM-106B</td>
<td>PHIL 10</td>
<td>PHIL-102</td>
</tr>
<tr>
<td>CHIN 2</td>
<td>CHIN-101A</td>
<td>PHIL SEQ A</td>
<td>PHIL-101 + PHIL-102</td>
</tr>
<tr>
<td>CSCI 10</td>
<td>CS-118</td>
<td>PHYS 2</td>
<td>PHYS-120</td>
</tr>
<tr>
<td>CSCI 14</td>
<td>CS-112</td>
<td>PHYS 4</td>
<td>PHYS-121</td>
</tr>
<tr>
<td>CSCI 18</td>
<td>CS-116</td>
<td>PHYS 8</td>
<td>PHYS-140</td>
</tr>
<tr>
<td>CSCI 26</td>
<td>CS-113</td>
<td>PHYS 12</td>
<td>PHYS-141</td>
</tr>
<tr>
<td>DRAM 8</td>
<td>TD-110</td>
<td>PHYS 14</td>
<td>PHYS-142</td>
</tr>
<tr>
<td>DRAM 10</td>
<td>TD-152</td>
<td>PHYS SEQ A</td>
<td>PHYS-120 + PHYS-121</td>
</tr>
<tr>
<td>DRAM 18</td>
<td>TD-102</td>
<td>PHYS SEQ B</td>
<td>PHYS-140 + PHYS-141 + PHYS-142</td>
</tr>
<tr>
<td>ECON 2</td>
<td>BA-102A</td>
<td>PSY 2</td>
<td>PSY-101</td>
</tr>
<tr>
<td>ECON 4</td>
<td>BA-102B</td>
<td>SOC 2</td>
<td>SOC-101</td>
</tr>
<tr>
<td>ENGL 2</td>
<td>ENGL-101A</td>
<td>SPAN 2</td>
<td>SPAN-101A</td>
</tr>
<tr>
<td>ENGL 4</td>
<td>ENGL-101B</td>
<td>SPAN 8</td>
<td>SPAN-102A</td>
</tr>
<tr>
<td>ENGL 6</td>
<td>ENGL-111A</td>
<td>SPAN 10</td>
<td>SPAN-102B</td>
</tr>
<tr>
<td>ENGL 14</td>
<td>ENGL-105A</td>
<td>SPAN SEQ A</td>
<td>SPAN-101A + SPAN-101B</td>
</tr>
<tr>
<td>ENGL 20</td>
<td>ENGL-113</td>
<td>SPAN SEQ B</td>
<td>SPAN-102A + SPAN-102B</td>
</tr>
<tr>
<td>ENGL SEQ A</td>
<td>ENGL-101A + ENGL-101B</td>
<td>SPCH 1</td>
<td>SPCH-101</td>
</tr>
<tr>
<td>ENGR 4</td>
<td>ENGR-140</td>
<td>SPCH 8</td>
<td>SPCH-103</td>
</tr>
<tr>
<td>ENGR 6</td>
<td>ENGR-130</td>
<td>STAT 2</td>
<td>MATH-159</td>
</tr>
<tr>
<td>ENGR 8</td>
<td>ENGR-120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FCS 2</td>
<td>CFS-109</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN SEQ A</td>
<td>FREN-101A + FREN-101B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 used to apply 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 Project Authorization form must be completed prior to registration.

ACADEMIC DIVISION INFORMATION

There are eight academic divisions at Ohlone including Counseling; Deaf Studies and Special Services; Fine Arts, Business, and Broadcasting; Health and Exercise Sciences; Language Arts, Library, and Social Sciences; and Math, Science, and Technology. Each division is managed by a dean and executive assistant. 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 1102B
Phone number: (510) 659-6037

Division: Deaf Studies and Special Services
Departments: American Sign Language (ASL), Deaf Preparatory Program (DEAF), Interpreter Training (INT), Learning Skills Program (LSP)
Dean: Joseph McLaughlin
Executive Assistant: Sue Owen
Location: Room 3302
Phone number: (510) 659-6269 (V/TTY)

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), 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 and Exercise Sciences
Departments: Allied Health (AH), Health (HLTH), Nursing (NURS), Physical Education (PE), Physical Therapist Assistant (PTA), Respiratory Therapy (RT)
Dean: Sharlene Limon
Executive Assistant: JoAnne Serran
Executive Assistant: Zelma Hunter
Location: Building 25
Phone number: (510) 659-6030
Executive Assistant: Megan Parker
Location: Room 1141
Phone number: (510) 659-6044

Division: Language Arts, Library, and Social Sciences
Departments: Administration of Justice (AJ), Arabic (ARAB), Chicano Studies (CHS), Chinese (CHIN), Consumer Family Sciences (CFS), Early Childhood Studies (ECS), Education (EDUC), English (ENGL), English as a Second Language (ESL), French (FREN), History (HIST), Italian (ITAL), Japanese (JPNS), Journalism (JOUR), Library Science (LS), Philosophy (PHIL), Political Science (PS), Psychology (PSY), Sociology (SOC), Spanish (SPAN), Speech and Communication Studies (SPCH), Women’s Studies (WS)
Dean: Mikelyn Stacey
Executive Assistant: Kathleen Martinez
Location: Hyman Hall, Room 222
Phone number: (510) 659-6173
Library Technician: Linda Dickerman
Location: Room 1318
Phone number: (510) 659-6167

Division: Math, Science, and Technology
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), Mathematics (MATH), Physical Sciences (PHS), Physics (PHYS)
Dean: Ron Quinta
Executive Assistant: Irene Benavidez
Phone number: (510) 659-6919
Executive Assistant: Sila Marques
Location: Room 8203
Phone number: (510) 659-6080

Division: Newark Center for Health Sciences and Technology; Entrepreneurial Programs
Dean: Leta Stagnaro
Executive Assistant: Ana Maria Lopez-Cepeda
Location: Building 27
Phone number: (510) 979-7941

Students in the University Express Program

Photo courtesy of College Relations
ADMINISTRATION OF JUSTICE

Division: Language Arts, Library, and Social Sciences

AJ-101 Administration of Justice
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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. (GC) (CAN AJ 2)

AJ-102 Criminal Law
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
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
3.40 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
3.40 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
3.40 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
3.40 hrs lecture, 1.20 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
3.40 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course involves an in-depth exploration of roles of AJ 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
3.40 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
3.40 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
3.40 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
3.40 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
3.40 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 Work Experience Education - Vocational
2.30 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
2.30 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
40.00 hrs lecture/term
Units: 1.00
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 Leadership Skills Development
3.40 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. (CR)

AJ-150 POST Level III Part 2 Laws of Arrest Reserve Level III Training
5.40 hrs lecture, 1.80 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
4.70 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
9.40 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
14.10 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
18.80 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
Introduces students to the Air Force and AFROTC with an overview of basic characteristics, missions, and organization of the Air Force; additional topics include officer’s professionalism, career opportunities, military customs and courtesies, and an introduction to communication skills. Enrollment in leadership lab required. (GR)

AF-101B Foundations of the U.S. Air Force
1.20 hrs lecture, 1.20 hrs lab
Units: 1.00
Accepted For Credit: CSU
Introduces students to the Air Force and AFROTC with an overview of basic characteristics, missions, and organization of the Air Force; additional topics include officer’s professionalism, career opportunities, military customs and courtesies, and an introduction to communication skills. Enrollment in leadership lab required. (GR)

AF-102A The Evolution of the U.S. Air Force
1.25 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Examines general aspects of air and space power through historical study and analysis and provides the student with a knowledge level understanding of the capabilities, function, and doctrinal employment of aerospace forces; emphasizes development of oral and written communication skills. Enrollment in leadership lab required. (GR)
AH-117A Basic Phlebotomy Training
2.30 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 theory course normally taught in the previous phlebotomy course. It is the first course in the four course series required to earn the Ohlone College Phlebotomy Certificate of Completion. The content meets the standards as outlined in the California standards and includes preparation for state certification. This is a 27 hour course normally taught over a 1 to 3 week period. Not applicable to associate degree. Repeatable = 1 time (GR)

AH-117B Phlebotomy Skills Lab
1.70 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 (GR)

AH-117C Advanced Phlebotomy Training
1.70 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 three 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 the health professionals. This course is open to practicing phlebotomists who by law are eligible to sit for the Phlebotomy Technician I certification exam. This is a 108-hour clinical course normally taught in an intensive 3-week block. Not applicable to associate degree. Repeatable = 1 time (GR)

AH-117D Phlebotomy Externship
6.80 hrs lab
Units: 1.50
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. No transfer courses are accepted. 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 (GR)

AH-118 Advanced Phlebotomy for Practitioners
1.70 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 (GR)

AH-120 Electrocardiography and Vital Signs
1.70 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 (GR)
AH-130 Acupressure Connection I
1.20 hrs lecture
Units: 1.00
This course presents the fundamental concepts of acupressure and its application. Students learn to give short and long acupressure treatments to relieve pain and to promote relaxation and healing. Additional alternative health practices, including therapeutic touch, relaxation techniques, guided imagery, exercise, and nutrition are addressed. This course is taught in two eight-hour sessions. Repeatable = 1 time (CR)

AH-131 Acupressure Connection II
1.20 hrs lecture
Units: 1.00
Prerequisite: AH-130
This course presents the twelve acupressure meridians. The influence and method of treatment of each meridian to balance body energies for the prevention of physical disease and the relief of pain are examined. Treatment methodologies for clients will be practiced. Repeatable = 2 times (CR)

AH-151 Applied Clinical Pharmacology
2.30 hrs lecture
Units: 2.00
Accepted For Credit: CSU
This course provides the respiratory therapy and nursing student or practitioner with a working knowledge of drug therapy in current use with acutely ill clients. (GC)

AH-365 Supervised Tutoring
11.80 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. Not applicable to associate degree. Repeatable = 3 times (NG)

AMERICAN SIGN LANGUAGE
Division: Deaf Studies and Special Services

ASL-101A Principles of American Sign Language I
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Accepted For Credit: CSU and UC
Prerequisite: ASL-101A or equivalent
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)

ASL-101B Principles of American Sign Language I
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: ASL-101A or equivalent
Accepted For Credit: CSU and UC
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. (CR)

ASL-102A Principles of American Sign Language II
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: ASL-102A or B with a grade of C or better or equivalent
Accepted For Credit: CSU and UC
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. (GR)

ASL-102B Principles of American Sign Language II
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: ASL-102A or equivalent
Accepted For Credit: CSU and UC
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 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. (CR)

ASL-103A Principles of American Sign Language III
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: ASL-103A or equivalent
Accepted For Credit: CSU and UC
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. (CR)

ASL-103B Principles of American Sign Language III
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: ASL-103A or equivalent
Accepted For Credit: CSU and UC
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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Type</th>
<th>Hours</th>
<th>Prerequisite</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL-104A</td>
<td>Principles of American Sign Language IV</td>
<td>5.70</td>
<td>5.00</td>
<td>3.40</td>
<td>3.00</td>
<td>ASL-102A or B with grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-104B</td>
<td>Principles of American Sign Language IV</td>
<td>5.70</td>
<td>5.00</td>
<td>3.40</td>
<td>3.00</td>
<td>ASL-102A or equivalent</td>
</tr>
<tr>
<td>ASL-140</td>
<td>Deaf Education</td>
<td>3.40</td>
<td>3.00</td>
<td>3.40</td>
<td>3.00</td>
<td>Accept for Credit: CSU</td>
</tr>
<tr>
<td>ASL-142</td>
<td>Deaf Culture</td>
<td>3.40</td>
<td>3.00</td>
<td>3.40</td>
<td>3.00</td>
<td>Completion of, or concurrent enrollment in, ASL-101A or B or equivalent</td>
</tr>
<tr>
<td>ASL-145</td>
<td>Deaf History</td>
<td>3.40</td>
<td>3.00</td>
<td>3.40</td>
<td>3.00</td>
<td>ASL-101A or B or with grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-150</td>
<td>Linguistics of ASL</td>
<td>3.40</td>
<td>3.00</td>
<td>3.40</td>
<td>3.00</td>
<td>ASL-102A or B with grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-152</td>
<td>Advanced Fingerspelling</td>
<td>1.20</td>
<td>1.00</td>
<td>1.20</td>
<td>1.00</td>
<td>ASL-102A or B with grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-154</td>
<td>American Sign Language Vocabulary</td>
<td>2.30</td>
<td>2.00</td>
<td>2.30</td>
<td>2.00</td>
<td>ASL-102A or B with grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-155</td>
<td>ASL Literature (Folklore)</td>
<td>3.40</td>
<td>3.00</td>
<td>3.40</td>
<td>3.00</td>
<td>ASL-103A or B with grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-156</td>
<td>Advanced Reception of ASL</td>
<td>3.40</td>
<td>3.00</td>
<td>3.40</td>
<td>3.00</td>
<td>ASL-102A or B with grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-157</td>
<td>ASL Storytelling</td>
<td>3.40</td>
<td>3.00</td>
<td>3.40</td>
<td>3.00</td>
<td>ASL-102A or B with a grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-158</td>
<td>Classifiers in ASL</td>
<td>3.40</td>
<td>3.00</td>
<td>3.40</td>
<td>3.00</td>
<td>ASL-102A or B with grade of C or better, or equivalent</td>
</tr>
<tr>
<td>ASL-160</td>
<td>American Sign Language Field Work</td>
<td>3.40</td>
<td>1.00</td>
<td>3.40</td>
<td>1.00</td>
<td>ASL-102A or B with grade of C or better, or equivalent</td>
</tr>
</tbody>
</table>
ASL-191A Workshops in Deaf Studies
3.40 hrs lecture
Units: 3.00
Prerequisite: ASL-190A or B with grade of C or better, or equivalent
This course is designed to provide basic conversational skills in the language used by most Deaf people in the United States. Emphasis will be placed on basic American Sign Language structure. Students are expected to attend outside events at their own expense. Repeatable = 3 times (CR)

ASL-191B Workshops in Deaf Studies
2.30 hrs lecture
Units: 2.00
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)

ASL-191C Workshops in Deaf Studies
3.40 hrs lecture
Units: 3.00
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)

ASL-191A-C (CR) Studies instructors. Repeatable = to a maximum of 9 units for 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)

ASL-190A Workshops in Basic ASL
1.20 hrs lecture
Units: 1.00
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)

ASL-190B Workshops in Basic ASL
2.30 hrs lecture
Units: 2.00
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)

ASL-190C Workshops in Basic ASL
3.40 hrs lecture
Units: 3.00
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)

ASL-190A-C (CR) Studies instructors. Repeatable = to a maximum of 9 units for 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)

ASL-190A Workshops in Basic ASL
1.20 hrs lecture
Units: 1.00
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)

ASL-190B Workshops in Basic ASL
2.30 hrs lecture
Units: 2.00
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)

ASL-190C Workshops in Basic ASL
3.40 hrs lecture
Units: 3.00
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)

ASL-191A Workshops in Deaf Studies
1.20 hrs lecture
Units: 1.00
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)

ANTHROPOLOGY
Division: Math, Science, and Technology

ANTH-101 Physical Anthropology
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course deals with human biology with an emphasis on human evolution and the interaction between biology and culture. Major topics of discussion will be genetics, human variation, primate studies, and the prehistorical fossil record. (GC) (CAN ANTH 2)

ANTH-101L Physical Anthropology Lab
3.40 hrs lab
Units: 1.00
Corequisite: ANTH-101, unless already completed
Accepted For Credit: CSU and UC
This lab includes the study of genetics and human variation and an examination of primate and human osteology. The study of human artifacts and fossils, and observation of primate behavior will also be studied. (GC)

ANTH-102 Cultural Anthropology
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course deals with the study of human society with reference to the development and change of culture. An emphasis will be placed on the comparative review of language, marriage and family, belief systems, wealth, power, and political organizations. (GC) (CAN ANTH 4)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-103</td>
<td>Introduction to Archaeology and Prehistory</td>
<td>3.40</td>
<td>Lecture</td>
<td>3.00</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU and UC</td>
</tr>
<tr>
<td>ANTH-104</td>
<td>Survey of North American Indian Cultures</td>
<td>3.40</td>
<td>Lecture</td>
<td>3.00</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU and UC</td>
</tr>
<tr>
<td>ANTH-105</td>
<td>Field Archaeology</td>
<td>1.20</td>
<td>Lecture, Lab</td>
<td>6.80</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU</td>
</tr>
<tr>
<td>ANTH-106</td>
<td>Magic, Witchcraft, and Religion</td>
<td>3.40</td>
<td>Lecture</td>
<td>3.00</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU</td>
</tr>
<tr>
<td>ANTH-365</td>
<td>Supervised Tutoring</td>
<td>6.80</td>
<td>Lab</td>
<td>0.00</td>
<td>Instructor or Counselor Referral</td>
<td>This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis with consultation with a tutor and supervision by part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 3 times (NG)</td>
</tr>
</tbody>
</table>

**ARABIC**

Division: Language Arts, Library, and Social Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARBC-101A</td>
<td>Elementary Arabic</td>
<td>5.70</td>
<td>Lecture, Lab</td>
<td>1.20</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU and UC</td>
</tr>
<tr>
<td>ARBC-101B</td>
<td>Elementary Arabic</td>
<td>5.70</td>
<td>Lecture, Lab</td>
<td>1.20</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU and UC</td>
</tr>
</tbody>
</table>

**ART**

Division: Fine Arts, Business, and Broadcasting

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-100</td>
<td>Survey of the Arts</td>
<td>3.40</td>
<td>Lecture</td>
<td>3.00</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU</td>
</tr>
<tr>
<td>ART-100L</td>
<td>Survey of the Arts Performance Attendance Lab</td>
<td>6.00</td>
<td>Lab</td>
<td>0.00</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-101</td>
<td>Art: An Introduction</td>
<td>3.40</td>
<td>Lecture</td>
<td>3.00</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU</td>
</tr>
<tr>
<td>ART-101L</td>
<td>Art: An Introduction Performance Attendance Lab</td>
<td>2.00</td>
<td>Lab</td>
<td>0.00</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU</td>
</tr>
</tbody>
</table>
ART-103A Survey of World Art History—Prehistoric Through 1300 C.E.
4.50 hrs lecture
Units: 4.00
Corequisite: ART-103L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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)

ART-103B Survey of World Art History—14th Century Through 20th Century
4.50 hrs lecture
Units: 4.00
Corequisite: ART-103L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
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)

ART-103D Art of China, Japan, and Korea
3.40 hrs lecture
Units: 3.00
Corequisite: ART-103L
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
This course is a survey of the arts of China, Japan, and Korea with particular attention to problems of technique, style, content, and the role of the arts in Asian cultures. No familiarity with Art History or Asian Studies is required. This course is intended to serve as an introduction to basic art-historical issues and methodologies as well as to provide a cultural and historical perspective for understanding the great monuments of East Asian art and their relationship to contemporary Asia, Europe, and the United States. (GC)

ART-103E Art of India and Southeast Asia
3.40 hrs lecture
Units: 3.00
Corequisite: ART 103L
Advisory: Eligible for ENGL 101A
Accepted For Credit: CSU and UC
This course is a survey of the visual and architectural arts of India and Southeast Asia. The course will consist of case studies in the arts of India, Tibet, Nepal, Central and Southeast Asia with particular attention to problems of technique, style, contents, and the role of the arts in Asian cultures. No familiarity with Art History or Asian Studies is required. This course is intended to serve as an introduction to basic art-historical issues and methodologies as well as to provide cultural and historical perspectives for understanding the great monuments of East Asian art and their relationship to contemporary Asia, Europe, and the United States. (GC)

ART-103L Survey of World Art History Performance Attendance Lab
2.00 hrs lab/term
Units: 0.00
Corequisite: ART-103A or B or D or E
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)

ART-104A 2D Design
2.30 hrs lecture, 4.50 hrs lab
Units: 3.00
Accepted For Credit: CSU and UC
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)

ART-104B 3D Design
2.30 hrs lecture, 4.50 hrs lab
Units: 3.00
Advisory: ART-104A
Accepted For Credit: CSU and UC
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)

ART-104C Color
2.30 hrs lecture, 4.50 hrs lab
Units: 3.00
Accepted For Credit: CSU and UC
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)

ART-105A Design Through Illumination
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Accepted For Credit: CSU
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, fusing, slumping, sandblasting, laminating, and fabrication techniques, and contemporary glass survey lectures. Repeatable = 3 times (GC)

ART-105B Advanced Glass Fabrication
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Prerequisite: ART-105A
Accepted For Credit: CSU
This course emphasizes further explorations in glass including moldmaking, casting, fusing, slumping, advanced lamination and torchwork. Repeatable = 3 times (GC)

ART-105C 3D Glass
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Prerequisite: ART-105A and ART-105B
Accepted For Credit: CSU
This course emphasizes three-dimensional glass using advanced techniques in kiln forming, sand casting, lamination, and torchwork. Repeatable = 3 times (GC)

ART-105D Descriptive Drawing
2.30 hrs lecture, 4.50 hrs lab
Units: 3.00
Accepted For Credit: CSU and UC
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)

ART-105F Intermediate Descriptive Drawing
2.30 hrs lecture, 4.50 hrs lab
Units: 3.00
Prerequisite: ART-105A
Accepted For Credit: CSU and UC
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)

ART-105G Life Drawing
2.30 hrs lecture, 4.50 hrs lab
Units: 3.00
Prerequisite: ART-105A
Accepted For Credit: CSU and UC
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)
ART-107B  Life Drawing  
2.30 hrs lecture, 4.50 hrs lab  
Units: 3.00  
Prerequisite: ART-107A  
Accepted For Credit: CSU and UC  
This course is a continuation of the work and methodology in the first semester, but with an emphasis on expressive interpretation in drawing the human figure and the use of color. Repeatable = 3 times (GC)

ART-108  Perspective Drawing  
2.30 hrs lecture, 4.50 hrs lab  
Units: 3.00  
Advisory: ART-106A  
Accepted For Credit: CSU and UC  
This is a practical course in the techniques and principles of drawing in one and two point freehand and constructed perspective with an emphasis on drawing interiors and furniture. Repeatable = 3 times (GC)

ART-109A  Beginning Graphic Design I (Letter Forms and Typography)  
2.30 hrs lecture, 8.40 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-109A  
Advisory: ART-104A  
Accepted For Credit: CSU  
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)

ART-109B  Beginning Graphic Design II  
2.30 hrs lecture, 8.40 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-109B  
Prerequisite: ART-109A or equivalent  
Accepted For Credit: CSU  
This course is an introduction to the pictorial image and written word as basic components in a format for communications. The studio practice develops student’s ability to formulate and communicate a concept into graphic form for both presentation and production. Repeatable = 3 times (GC)

ART-110A  Advanced Graphic Design I  
2.30 hrs lecture, 8.40 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-110A  
Prerequisite: ART-109B or equivalent  
Accepted For Credit: CSU  
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, and execution of 3-D design prototypes for presentation and photography. Repeatable = 3 times (GC)

ART-110B  Advanced Graphic Design II  
2.30 hrs lecture, 8.40 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-110B  
Prerequisite: ART-110A or equivalent  
Accepted For Credit: CSU  
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)

ART-111A  Painting - Color and Composition  
2.30 hrs lecture, 4.50 hrs lab  
Units: 3.00  
Advisory: ART-104A or ART-106A  
Accepted For Credit: CSU and UC  
This is an introductory course in studio painting practices designed to involve the student in basic studio techniques and experiences with regard to color, composition, and subject matter. Oil paint will be the primary media. Introduction to other painting media will be included in the instruction. Repeatable = 3 times (GC) (CAN ART 10)

ART-111B  Painting  
2.30 hrs lecture, 4.50 hrs lab  
Units: 3.00  
Prerequisite: ART-111A  
Accepted For Credit: CSU and UC  
This class continues the approaches studied in ART-111A with an emphasis on form and content of subject matter. Techniques in painting with a student choice of media will be further explored. Repeatable = 3 times (GC)

ART-112  Watercolor  
2.30 hrs lecture, 4.50 hrs lab  
Units: 3.00  
Advisory: ART-106A  
Accepted For Credit: CSU and UC  
This course concentrates on water-based media including transparent watercolor, dyes, gouache, and tempera. Brush techniques and investigation of various papers will be included. Repeatable = 3 times (GC)

ART-113  Airbrush Painting  
2.30 hrs lecture, 4.50 hrs lab  
Units: 3.00  
Prerequisite: ART-104A or ART-106A  
Accepted For Credit: CSU  
This course is an introduction to airbrush techniques used by graphic artists in creating two- and three-dimensional imagery. The use, maintenance, and history of the airbrush will be included. Repeatable = 3 times (GC)
ART-116A Basic Sculpture
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: ART-104A or ART-106A
Accepted For Credit: CSU and UC
This is an introductory course designed to familiarize the student with contemporary forms of sculpture. Studio practice with process and material will be emphasized. Repeatable = 3 times (GC) (CAN ART 12)

ART-116B Advanced Sculpture
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: ART-116A
Accepted For Credit: CSU and UC
This course is a continuation of ART-116A and will further explore the relationship between sculptural form and personal expression. Studio practice in advanced processes will be emphasized. Repeatable = 3 times (GC)

ART-116C Sculpture and Beyond
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course is a continuation of ART-116B and will further explore the relationship between sculptural form and personal expression. Studio practice in advanced processes and investigation of the local art scene will be emphasized. Repeatable = 3 times (GC)

ART-117A Museum and Gallery Techniques (Exhibition Production)
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is an introduction to the operation and display of visual art within a gallery and museum space. It involves a broad range of activities covering the care and handling, responsibility and security of art shown in the college’s Art Gallery. (GC)

ART-117B Museum and Gallery Techniques (Promotional Graphics)
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Prerequisite: ART-117A or ART-109A
Accepted For Credit: CSU
This course continues the production and display techniques experienced in ART-117A. The emphasis will be to give students a working understanding of the methods of preparing materials for promoting and disseminating information important to the exhibition of art in the College’s gallery. Repeatable = 1 time (GC)

ART-119A 3D Studio Lab
3.40 hrs lab
Units: 1.00
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
Accepted For Credit: CSU
This class is a lab component of all three-dimensional studio classes in the Art Department. Students will produce projects in clay, glass, or other sculptural materials. Repeatable = 3 times (CR)

ART-119B Intermediate 3D Studio Lab
3.40 hrs lab
Units: 1.00
Prerequisite: ART-119A
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
Accepted For Credit: CSU
This class is a lab component of all three-dimensional studio classes in the Art Department. Students will produce projects in clay, glass, or other sculptural materials. Repeatable = 3 times (CR)

ART-119C Advanced 3D Studio Lab
3.40 hrs lab
Units: 1.00
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
Accepted For Credit: CSU
This class is a lab component of all three-dimensional studio classes in the Art Department. Students will produce portfolio projects in clay, glass, or other sculptural materials. Repeatable = 3 times (CR)

ART-120A Ceramic Studio Development and Maintenance I
3.40 hrs lab
Units: 1.00
Accepted For Credit: CSU
This course is an introduction to the development and maintenance of a ceramic studio. Students will gain general and practical working experience in the acquisition, installation, and use of all necessary studio equipment and supplies by helping to maintain the Ohlone ceramic studio. The machinery includes kilns, wheels, pug mill, slab roller, extruder, slip mixer, airbrush, spray booth, compressor, glaze materials, and ceramic library. Repeatable = 3 times (GC)

ART-120B Ceramic Studio Development and Maintenance II
3.40 hrs lab
Units: 1.00
Prerequisite: ART-120A or equivalent
Accepted For Credit: CSU
This course is a continuation of ART-120A. It enables ceramic students to develop plans for ceramic studios. Repeatable = 3 times (GC)

ART-121A Introductory Ceramics I
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Accepted For Credit: CSU and UC
This course is an introduction to the fundamental techniques of wheel-thrown and hand-shaped clay forms. This is a survey of clay and glaze materials and their ceramic applications. It includes firing of high temperature and low temperature stoneware and porcelain clays, including Raku and burnishing. Repeatable = 3 times (GC) (CAN ART 6)

ART-121B Introductory Ceramics II
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Prerequisite: ART-121A or equivalent
Accepted For Credit: CSU and UC
This is a continuation of ART-121A. The emphasis is on wheel throwing, advanced handbuilding, glaze application, and loading and firing of bisque kilns. Repeatable = 3 times (GC)

ART-122A Ceramic Throwing I
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Prerequisite: ART-121B or equivalent
Accepted For Credit: CSU and UC
The course emphasis is on the designing, throwing, and glazing of more complex and difficult forms, including hollowed containers, closed shapes, goblets, thin-necked bottles, and teapot sets. Repeatable = 3 times (GC)

ART-122B Ceramic Throwing II
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Prerequisite: ART-122A or equivalent
Accepted For Credit: CSU and UC
This is a continuation of ART-122A. The emphasis is on the designing, throwing, glazing and firing of a matched dinner service for eight, including dinner and salad plates, soup bowls, cups, casserole, pitcher, teapot, sugar bowl and creamer or the completion of an equally difficult project. Repeatable = 3 times (GC)
ART-123  Ceramic Decorating
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Prerequisite: ART-121B or H16B or equivalent.
Accepted For Credit: CSU and UC

This course emphasizes all aspects of ceramic decoration including texture, carving, flattening, applied ornament, colored clays, engobes, brush making, resists, stencils, slip trailing, combing, marbling, commercial underglazes, raw oxides, and overglazes. Repeatable = 3 times (GC)

ART-124  Advanced Ceramic Decorating
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Prerequisite: ART-121B or H10B or equivalent
Accepted For Credit: CSU and UC

The emphasis is on designing and forming ceramic products for marketing. This includes shapes with commercially available accessories such as clay teapots with bamboo handles, covered canisters with wooden scoops, and clay oil lamps with burners. This course also includes large outdoor ceramic shapes such as large planters, tiles and murals, stools, lights, small fountains, and non-functional ceramic sculpture. Repeatable = 3 times (GC)

ART-131A  Fine Art Photography: The Early Years
2.30 hrs lecture
Units: 2.00
Accepted For Credit: CSU and UC

Photography as a contemporary art form and history. Students will develop aesthetic appreciation as well as gain indelible insights into history. (GC)

ART-131B  Fine Art Photography: the Second Century
2.30 hrs lecture
Units: 2.00
Advisory: ART-131A
Accepted For Credit: CSU and UC

This course is a survey of 20th century photography and fine art set in historical and cultural context, including expression and aesthetic criticism. (GC)

ART-133A  Black and White Photography
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Accepted For Credit: CSU and UC

This course covers the fundamental processes of photography in mechanics of camera, darkroom equipment, optics, chemistry of film and paper, filtration, subject content, composition, and skills required to produce quality continuous tone black and white prints. Students will need an adjustable camera. (GC) (CAN ART 10)

ART-133B  Advanced Black and White Photography
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Prerequisite: ART-133A
Accepted For Credit: CSU

This is a darkroom course in black and white photography. Sensitometry, film latitude, and development parameters are taught in accordance with the precepts of the Zone System of photography. Students learn about camera exposure as it relates to print controls. The course spends time on pre-visualization techniques and affords the opportunity for students to emphasize creativity and artistic style. Repeatable = 1 time (GC)

ART-134A  Basic Color Photography
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Accepted For Credit: CSU

This course examines color and design in photography with emphasis on creative expression through 35mm color. The course introduces color negative and reversal films. Techniques are covered in the lab include digital image capture through scanning and computer adjustments to offer color correction, image manipulation, and capability to produce multi-media effects. A 35mm camera is required, as well as the purchase of film and processing. (GC)

ART-134B  Advanced Color Photography
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Accepted For Credit: CSU

Color darkroom techniques for chromogenic prints are taught in this course. The course includes the theory and methods for all other current types of color photographic processes. Students will print color enlargements from their 35mm color negatives. Repeatable = 1 time (GC)

ART-139A  Digital Photography
1.20 hrs lecture, 8.40 hrs lab
Units: 2.00
Cross-referenced Course: GA-169A, CS-169A
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU

This photography course on the Macintosh computer is a personal training class based on the software application Adobe Photoshop. Students will learn to scan photographs, 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)

ART-139B  Intermediate Digital Photography
1.20 hrs lecture, 8.40 hrs lab
Units: 2.00
Cross-referenced Course: GA-169B, 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 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)

ART-145  Digital Photojournalism
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Cross-referenced Course: JOUR-145
Advisory: ART-133A or equivalent photographic experience.
Accepted For Credit: CSU

This course is designed for students with a career or consumer interest in photography as a communication art. The history, techniques, philosophies, and markets of photojournalism are explored through lectures, discussions, and appropriate photographic assignments. Emphasis on photography as a complement to printed material. Digital photographic techniques are stressed, using scanners and PhotoShop. (GC)

ART-146  Photography/Graphic Arts Newspaper Staff
0.60 hrs lecture, 1.80 hrs lab
Units: 1.00
Cross-referenced Course: JOUR-146
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 the completion of assignments. Students are also introduced to legal and ethical responsibilities. Repeatable = to a maximum of 9 units (GC)

2006-2007 ORILONE COLLEGE CATALOG
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-147</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>1.20</td>
<td>This introductory course focuses on photography and graphic arts as related to interior design. Students learn about the use of techniques and skills for effective communication. Repeatable 3 times (GC)</td>
</tr>
<tr>
<td>ART-148</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>1.20</td>
<td>Students are introduced to legal and ethical responsibilities in the design industry. Training emphasizes the use of techniques and skills for effective communication. Repeatable to a maximum of 9 units (GC)</td>
</tr>
<tr>
<td>ART-150A</td>
<td>Interior Design Concepts</td>
<td>3.40</td>
<td>Students analyze interiors using basic design concepts. Principles and techniques used by professional interior designers are demonstrated. Repeatable to a maximum of 9 units (GC)</td>
</tr>
<tr>
<td>ART-150B</td>
<td>Interior Design</td>
<td>2.30</td>
<td>This course is a continuation of ART-150A. Students study the history of home design and architectural drafts for interior design. A wide range of materials and processes will be explored. Repeatable = to a maximum of 9 units (GC)</td>
</tr>
<tr>
<td>ART-151</td>
<td>Visualization and Presentation</td>
<td>2.30</td>
<td>This course is an introductory course. Students learn about the role of visual communication in design. Students will prepare a design portfolio. Repeatable 3 times (GC)</td>
</tr>
<tr>
<td>ART-153</td>
<td>History of Decorative Arts</td>
<td>3.40</td>
<td>Students study furniture construction, styles, and periods in conjunction with the architecture and related decorative arts of each era. (GC)</td>
</tr>
<tr>
<td>ART-154</td>
<td>Contemporary Home Design</td>
<td>3.40</td>
<td>Students study the architectural history of home design and learn practical applications of information relating to design, construction methods, and economic practices. (GC)</td>
</tr>
<tr>
<td>ART-155A</td>
<td>Architectural Drafting for Interior Design</td>
<td>2.30</td>
<td>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. Repeatable 3 times (GC)</td>
</tr>
<tr>
<td>ART-155B</td>
<td>CAD for Interior Design</td>
<td>2.30</td>
<td>Students learn practical applications of information relating to design, construction methods, and economic practices. (GC)</td>
</tr>
<tr>
<td>ART-156</td>
<td>Architectural Modelmaking for Interior Design</td>
<td>2.30</td>
<td>Students prepare a design portfolio. Repeatable 3 times (GC)</td>
</tr>
<tr>
<td>ART-157</td>
<td>Professional Practice for Interior Design</td>
<td>3.40</td>
<td>Students study the history of home design and architectural drafts for interior design. A wide range of materials and processes will be explored. Repeatable = to a maximum of 9 units (GC)</td>
</tr>
<tr>
<td>ART-158</td>
<td>Textiles</td>
<td>2.30</td>
<td>Students study the physical and chemical properties of fibers, fabrication systems for yarns and fabrics, the technology of fabric dyes, and decorative processes and finishes. Repeatable 3 times (GC)</td>
</tr>
<tr>
<td>ART-159A</td>
<td>Applied Design: Residential Lighting</td>
<td>1.20</td>
<td>Students study lighting fixtures and how to use them to create a specific atmosphere and facilitate activities. Repeatable 3 times (GC)</td>
</tr>
</tbody>
</table>
ART-159B  Applied Design: Color for the Home  
1.20 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)

ART-160A  Computer Graphics I  
3.40 hrs lecture, 10.20 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  
3.40 hrs lecture, 10.20 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 computer 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  
1.20 hrs lecture, 6.80 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 bitmap 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  
1.20 hrs lecture, 6.80 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 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)

ART-162  Digital Graphics Lab  
3.40 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  
1.80 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 all the related classes. Repeatable = 3 times (CR)

ASTRONOMY  
Division: Math, Science, and Technology

ASTR-101A  General Astronomy of the Solar System  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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  
3.40 hrs lab  
Units: 1.00  
Corequisite: ASTR-101A or ASTR-101B  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and UC  
This is an introductory lab course covering the methods and fundamentals of astronomy through inquiry and experiments. (GC)

ASTR-365  Supervised Tutoring  
6.80 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)
BIOLOGY

Division: Math, Science, and Technology

**BIOL-101A** Principles of Biology—Molecular and Cellular
3.40 hrs lecture, 6.80 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 and 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
3.40 hrs lecture, 6.80 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 and UC
This course is an introduction to biological principles for biology and health profession majors. Topics emphasized include a survey of diversity of Kingdoms Animalia Plantae, anatomy and physiology of mammalian systems, evolution, and ecology. This course completes the lower division core curriculum in biology for biology and pre-health profession majors. (GR) (BIOL-101A + BIOL-101B = CAN BIOL SEQ A)

**BIOL-103A** Human Anatomy and Physiology
3.40 hrs lecture, 3.40 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 and 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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: BIOL-103A with a grade of C or better
Accepted For Credit: CSU and 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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: BIOL-130 or equivalent within past 3 years
Accepted For Credit: CSU and UC
This course surveys the structure and function of the major organ systems of the human body. Emphasis is on homeostasis and regulatory mechanisms. Annual dissection and cadaver demonstrations will be presented. (GR)

**BIOL-105** Heredity, Evolution, and Society
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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
3.40 hrs lecture, 6.80 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 and 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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
1.80 hrs lecture, 1.80 hrs lab
Units: 2.00
Cross-referenced Course: BIOT-114A
Accepted For Credit: CSU
This is an 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
1.80 hrs lecture, 1.90 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**
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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**
1.20 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. Not applicable to associate degree. Repeatable = 3 times (CR)

**BIOL-140 Sierra Nevada Natural History**
2.30 hrs lecture, 3.40 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**
3.40 hrs lecture
Units: 3.00
Advisory: ENGL-151B
Accepted For Credit: CSU

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**
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU

This course is an introduction to the biological sciences focusing on 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**
0.60 hrs lecture, 1.80 hrs lab
Units: 1.00
Cross-referenced Course: CHEM-190, GEOL-190, ENGL-190, PHYS-190, CS-190
Prerequisite: Consent of instructor
Advisory: MATH-108; 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**
6.80 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: Math, Science, and Technology

**BIOT-100 Biotechnology and Society**
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and MATH-151
Accepted For Credit: CSU and 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**
3.40 hrs lecture, 3.40 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 micropipettes, 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 note-taking, 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-110A Biotechnology Lab I**
1.20 hrs lecture, 6.80 hrs lab
Units: 3.00
Prerequisite: BIOT-105, CHEM-109 with grades of C or better
Advisory: ENGL-101A and MATH-159
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 techniques 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. Repeatable = 2 times (GR)

**BIOT-110B Advanced Biotechnology Theory and Applications**
3.40 hrs lecture
Units: 3.00
Prerequisite: BIOT-105, CHEM-109
Accepted For Credit: CSU

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. (GR)
BIOT-111  Advanced Biotechnology Lab  
1.20 hrs lecture, 3.40 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, cloning and gene mapping, sequencing specific genes, and cell culture. Repeatable = 2 times (GR)

BIOT-112  Introduction to Bioinformatics  
1.20 hrs lecture, 3.40 hrs lab  
Units: 2.00  
Advisory: CS-101L  
Accepted For Credit: CSU  

In this course students will learn to perform effective protein and 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  
1.80 hrs lecture, 1.80 hrs lab  
Units: 2.00  
Cross-referenced Course: BIOL-114A  
Accepted For Credit: CSU  

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)

BIOT-114B  Applications in Plant and Food Biotechnology  
1.80 hrs lecture, 1.80 hrs lab  
Units: 2.00  
Cross-referenced Course: BIOL-114B  
Prerequisite: BIOT-114A or BIOL-114A  
Accepted For Credit: CSU  

This is 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-120  Introduction to Scanning Electron Microscopy (SEM)  
3.40 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  
1.20 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 Bionanotechnology  
2.30 hrs lecture  
Units: 2.00  
Advisory: BIOL-101A  
Accepted For Credit: CSU  

Bionanotechnology encompasses the study, creation, and illumination of the connections between structural molecular biology and molecular nanotechnology. Discussions on how the lessons that may be learned from biology can be applied to nanotechnology today, explore the properties of nanomachines that are available in cells, and look to the structure and function of natural nanomachines for guidance in building nanomachinery. (GC)

BIOT-131  Computing Concepts in Biotechnology  
3.40 hrs lecture, 3.40 hrs lab  
Units: 3.00  
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  
1.20 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  
3.00 hrs lecture, 1.80 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-143  Advanced SAS Programming  
3.00 hrs lecture, 1.80 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)
ANNOUNCEMENT OF COURSES

9

BROADCASTING
Division: Fine Arts, Business, and Broadcasting

BRDC-120  Introduction to Broadcasting
2.30 hrs lecture
Units: 2.00
Accepted For Credit: CSU
This course is an introduction to the development and nature of radio and TV and their social, economic, and cultural implications. The concepts and motives of commercial and non-commercial broadcasting will be discussed as well as the broadcast industry’s relationship with the FCC. Basic principles of programming, advertising, ratings, and criticism will be introduced. (GR)

BRDC-123A  Radio Operations I
1.20 hrs lecture, 6.80 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
1.20 hrs lecture, 6.80 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
11.80 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
3.40 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-127B  Radio Broadcast Lab
3.40 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
3.40 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
3.40 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
2.50 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
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
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
2.30 hrs lecture, 3.40 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
2.30 hrs lecture, 3.40 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)

BRDC-134  Final Cut Pro Editing
2.30 hrs lecture, 3.40 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
2.30 hrs lecture, 3.40 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
2.30 hrs lecture, 3.40 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 compares both to video editing. The course covers history of video storage medium from 2” AMPEX tape through BETACAM, 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
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: BRDC-136
Accepted For Credit: CSU

This is a series of modules designed to train students in the operation of equipment located in the TV control rooms. Discussions include electronic application and creative uses in a practical hands-on environment. (CR)

BRDC-138 AVID Editing
2.30 hrs lecture, 3.40 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-139 Advanced AVID Editing
2.30 hrs lecture, 3.40 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, BETACAM, and DV. Repeatable = 1 time (GR)

BRDC-140 TV Control Room Equipment
3.40 hrs lecture
Units: 3.00
Accepted For Credit: CSU

This is a series of modules designed to train students in the operation of equipment located in the TV control rooms. Discussions include electronic application and creative uses in a practical hands-on environment. (CR)

BRDC-141 Live TV Newscast
2.30 hrs lecture, 3.40 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
2.30 hrs lecture, 3.40 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-news cast formats. Positions for students include both technical and air-talent personnel. Repeatable = 1 time (GR)

BRDC-143 The Newsroom Operation
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: BRDC-141 or BRDC-142
Accepted For Credit: CSU

This is a course in the fundamentals of operation of a television newsroom. Students will actively participate in the preparation of weekly live newscasts through research and production of news stories, editing, and compiling TV news packages. Repeatable = 2 times (GR)

BRDC-144 Directing Live Television
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: BRDC-144 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)

BRDC-150 Music Video Production
10.20 hrs lab
Units: 3.00
Prerequisite: BRDC-136, BRDC-138, BRDC-141, BRDC-142, BRDC-148, BRDC-180, or TD-180
Accepted For Credit: CSU

Students participate in the production of a music video, receiving instruction in storyboard, shooting digital video, recording digital sound, and audio and video editing using non-linear editing equipment, as well as information on marketing a music video. Repeatable = 2 times (GR)

BRDC-155 Mass Media and Society
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: JOUR-155
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC

This course teaches the basics of how mass media works—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)

BRDC-179 History of Television Broadcasting
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: TD-106
Advisory: ENGL-151 and ENGL-163
Accepted For Credit: CSU

This course presents a historical overview of the emergence of television as a major cultural phenomenon in the U.S. The course will look at television’s visionaries such as Zwarkin, Baird, and Farnsworth. It will also cover the rise of the networks and the giants of the Golden Age, including Lucille Ball, Sid Caesar, and Ed Sullivan. Repeatable = 1 time (GC)
### BUSINESS ADMINISTRATION

Division: Fine Arts, Business, and Broadcasting

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-180</td>
<td>Television Series Production</td>
<td>10.20 hrs lab</td>
<td>3.00</td>
<td>This course introduces students to the production of episodic television programs. Positions for students include both talent and technical operations. Repeatable = 2 times (GR)</td>
</tr>
<tr>
<td>BRDC-365</td>
<td>Supervised Tutoring</td>
<td>11.80 hrs lab</td>
<td>0.00</td>
<td>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 tutor and/or part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 3 times (NG)</td>
</tr>
</tbody>
</table>

---

#### Principles of Accounting

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-101A</td>
<td>Principles of Accounting</td>
<td>5.70 hrs lecture</td>
<td>This course introduces accounting theory, procedures, and practices relating to service and merchandising operations. (GC)</td>
</tr>
<tr>
<td>BA-101B</td>
<td>Principles of Accounting</td>
<td>5.70 hrs lecture</td>
<td>This course is an introduction to managerial accounting including the analysis and interpretation of accounting data to aid management. (GC)</td>
</tr>
<tr>
<td>BA-102A</td>
<td>Principles of Economics-Macroeconomics</td>
<td>3.40 hrs lecture</td>
<td>This course involves an economic analysis of American political economy. The topics explored include supply and demand, theory of prices, government spending and taxation, business cycles, fiscal and monetary policy, banking system and economic development. (GC)</td>
</tr>
<tr>
<td>BA-102B</td>
<td>Principles of Economics-Microeconomics</td>
<td>3.40 hrs lecture</td>
<td>This course involves an economic analysis of the American political economy. The topics explored include legal types of businesses; market models; monopoly; income distribution; environmental, energy, food and population issues; and international economics and alternative systems. (GC)</td>
</tr>
</tbody>
</table>

---

#### Applied Accounting

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-104</td>
<td>Computer Applications in Accounting</td>
<td>2.30 hrs lecture, 3.40 hrs lab</td>
<td>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 tutor and/or part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 3 times (NG)</td>
</tr>
<tr>
<td>BA-105</td>
<td>Income Tax Principles</td>
<td>4.50 hrs lecture</td>
<td>This course is designed to meet the needs of individuals who are interested in computerizing their personal finances. A widely-used financial software package (such as Quicken) will be presented. This course is normally taught in nine weeks. (GC)</td>
</tr>
<tr>
<td>BA-106</td>
<td>Applied Accounting</td>
<td>4.40 hrs lecture</td>
<td>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)</td>
</tr>
<tr>
<td>BA-107</td>
<td>Cost and Managerial Accounting</td>
<td>3.50 hrs lecture, 1.00 hrs lab</td>
<td>This course is designed to meet the needs of individuals who are interested in computerizing their personal finances. A widely-used financial software package (such as Quicken) will be presented. This course is normally taught in nine weeks. (GC)</td>
</tr>
</tbody>
</table>

---

#### Financial Statement Analysis for Non-Financial Managers

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-109A</td>
<td>Computerized Accounting for Personal Finance</td>
<td>1.40 hrs lecture, 0.90 hrs lab</td>
<td>This course covers fundamentals of accounting theory and applications. (GC)</td>
</tr>
<tr>
<td>BA-109B</td>
<td>Computerized Accounting for Small Business</td>
<td>1.40 hrs lecture, 0.90 hrs lab</td>
<td>This course covers fundamentals of accounting theory and applications. (GC)</td>
</tr>
</tbody>
</table>

---

#### Economics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-110</td>
<td>Business Economics</td>
<td>3.40 hrs lecture</td>
<td>This course is a descriptive survey of the economic system of the United States. The course is a non-technical, one semester course with emphasis on the analysis, interpretation, and application of economic principles to the solution of economic problems. (GC)</td>
</tr>
<tr>
<td>BA-111</td>
<td>Financial Statement Analysis for Non-Financial Managers</td>
<td>1.80 hrs lecture</td>
<td>This course provides a step-by-step approach to understanding financial statements for students who do not have an in-depth knowledge of accounting or finance. Students will learn how to cut through the maze of financial reports, learn what the numbers really mean, and to use financial statements to make better business decisions. Not applicable to associate degree. (GC)</td>
</tr>
</tbody>
</table>
BA-125 Introduction to Business
3.40 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU

This course covers the nature and processes of distribution economic products and services from origin to consumer. The types and functions of marketing institutions are examined in detail. (GC)

BA-129 Introduction to Advertising
3.40 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
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: PSY-139
Advisory: Eligible for ENGL-151B and ENGL-163
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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A and ENGL-163
Accepted For Credit: CSU

This is an introduction to law applicable to business including the legal environment of business, contracts, agency, and sales law. This course also satisfies the requirement for Real Estate Law. Repeatable = 1 time. (GC) (CAN BUS 8)

BA-144 Sports Management
3.40 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
3.40 hrs lecture, 10.20 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)
ANNOUNCEMENT OF COURSES

BA-160B  Computer Graphics II
3.40 hrs lecture, 10.20 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
3.40 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
3.40 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
4.70 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
9.40 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
14.10 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
18.80 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
3.40 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
3.40 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
3.40 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
3.40 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
3.40 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
3.40 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
4.70 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)
CHEM-101A General Chemistry
3.40 hrs lecture, 6.80 hrs lab
Units: 5.00
Prerequisite: CHEM-106A and MATH-152 with a grade of C or better
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC

CHEM-106A Principles of Chemistry
3.40 hrs lecture, 3.40 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 and UC

CHEM-112A Organic Chemistry
3.40 hrs lecture, 6.80 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 and UC

CHEM-112B Organic Chemistry
3.40 hrs lecture, 6.80 hrs lab
Units: 5.00
Prerequisite: CHEM-112A with grade of C or better
Accepted For Credit: CSU and UC

Biochemistry for Health Science and Biotechnology
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: MATH-151
Accepted For Credit: CSU

Principles of Chemistry
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 chemistry other than CHEM-101A. It satisfies the general education requirements for non-science majors. (GR)

Organic Chemistry
CHEM-112A is the first semester of organic chemistry for science oriented, pre-professional health and pre-engineering students. The 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)

Organic Chemistry
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  
1.20 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. Students must be enrolled in another Chemistry course concurrently with CHEM-131D. Not applicable to associate degree. Repeatable = 3 times (CR)

CHEM-190  Scientific Research Methodology  
0.60 hrs lecture, 1.80 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  
6.80 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: Language Arts, Library, and Social Sciences

CHS-101  Chicano Culture I  
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: SOC-106  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and UC  
This course examines the social, cultural, political, and economic heritage of the Chicanos and their contribution to American society. (GR)

CHS-102  Chicano History  
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: HIST-112  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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)

CHS-106A  Chicano Literature  
3.40 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU and UC  
This course offers an introduction to imaginative writing by Chicanos. Through performing in-depth studies of certain authors, the students will view literature as a reflection of Chicano life. (GC)

CHS-109  Barrio Fieldwork  
4.50 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Observation of selected barrios, institutions, agencies. (GR)

---

CHINESE

Division: Language Arts, Library, and Social Sciences

CHIN-101A  Elementary Mandarin Chinese I  
5.70 hrs lecture, 1.20 hrs lab  
Units: 5.00  
Accepted For Credit: CSU and UC  
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)

CHIN-101B  Elementary Mandarin Chinese II  
5.70 hrs lecture, 1.20 hrs lab  
Units: 5.00  
Prerequisite: CHIN-101A with a grade of C or better, or 2 years of high school Chinese  
Accepted For Credit: CSU and UC  
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)

CHIN-102A  Intermediate Mandarin Chinese I  
5.70 hrs lecture, 1.20 hrs lab  
Units: 5.00  
Prerequisite: CHIN-101B with a grade of C or better, or 3 years of high school Chinese  
Accepted For Credit: CSU and UC  
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)

CHIN-102B  Intermediate Mandarin Chinese II  
5.70 hrs lecture, 1.20 hrs lab  
Units: 5.00  
Prerequisite: CHIN-102A with a grade of C or better  
Accepted For Credit: CSU and UC  
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)
**CHIN-121A** Mandarin Chinese Conversation I  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
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)

**CHIN-121B** Mandarin Chinese Conversation II  
3.40 hrs lecture  
Units: 3.00  
Prerequisite: CHIN-121A or equivalent  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and UC  
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)

**COMPUTER APPLICATIONS AND OCCUPATIONAL TECHNOLOGY**

Division: Math, Science, and Technology

**CAOT-101** Computer Applications  
1.80 hrs lecture, 1.80 hrs lab  
Units: 2.00  
Cross-referenced Course: CS-101L  
Advisory: CS-101L or equivalent  
Accepted For Credit: CSU and 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)

**CAOT-104** Basic Keyboarding  
3.40 hrs lab  
Units: 1.00  
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 = 2 times (GC)

**CAOT-110A** Beginning Keyboarding  
0.60 hrs lecture, 1.80 hrs lab  
Units: 1.00  
This self-paced course includes mastery of the keyboard with touch typing. Repeatable = 1 time (GC)

**CAOT-110B** Beginning Keyboarding II  
0.60 hrs lecture, 1.80 hrs lab  
Units: 1.00  
Prerequisite: CAOT-110A  
This self-paced course includes an introduction to business and personal letters, tabulation, and business reports. Repeatable = 3 times (GC)

**CAOT-110C** Beginning Keyboarding III  
0.60 hrs lecture, 1.80 hrs lab  
Units: 1.00  
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)

**CAOT-111** Intermediate Keyboarding  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Prerequisite: 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)

**CAOT-112** Advanced Keyboarding  
1.20 hrs lecture, 3.40 hrs lab  
Units: 2.00  
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)

**CAOT-120** ESL and Basic Computer Skills (Part I)  
1.20 hrs lecture, 1.80 hrs lab  
Units: 1.50  
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)

**CAOT-121** ESL and Basic Computer Skills (Part II)  
1.20 hrs lecture, 1.80 hrs lab  
Units: 1.50  
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)

**CAOT-134A** Beginning Microsoft Access  
0.30 hrs lecture, 0.90 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
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 = 1 time (GC)

**CAOT-134B** Intermediate Microsoft Access  
0.30 hrs lecture, 0.90 hrs lab  
Units: 0.50  
Advisory: CAOT-134A  
This is an intermediate database course using Microsoft Access, which reviews basic database concepts and teaches beginning database skills. This course is the second of three sequencing courses in the Microsoft Office Suite. Repeatable = 2 times (GC)

**CAOT-134C** Advanced Microsoft Access  
0.30 hrs lecture, 0.90 hrs lab  
Units: 0.50  
Advisory: CAOT-134B  
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)

**CAOT-141** PowerPoint for Legal Professionals  
1.20 hrs lecture, 3.40 hrs lab  
Units: 1.00  
This course teaches students how to use PowerPoint and apply its features toward a presentation in a legal environment. Repeatable = 2 times (GC)

**CAOT-145** Microsoft Visual Basic for Applications  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
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)
CAOT-147 Computer Applications in Biology
0.30 hrs lecture, 0.90 hrs lab
Units: 0.50
Corequisite: BIOL-101A
This course introduces basic computer skills necessary to perform tasks required for biology major’s courses. This course covers key concepts in Excel, PowerPoint, and Access. (CR)

CAOT-148 Computer Applications in Biotechnology
0.30 hrs lecture, 0.90 hrs lab
Units: 0.50
Corequisite: BIOT-110A
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 (CR)

CAOT-153 Introduction to Internet
1.20 hrs lecture
Units: 1.00
Advisory: CS-101 or equivalent
Accepted For Credit: CSU
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. This course is normally taught in nine weeks. (GC)

CAOT-156 Microsoft Publisher
0.30 hrs lecture, 0.90 hrs lab
Units: 0.50
Advisory: Eligible for ENGL-151B and ENGL-163
Accepting For Credit: CSU
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
1.20 hrs lecture, 0.80 hrs lab
Units: 2.00
Cross-referenced Course: ART-161A, GA-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)

CAOT-161B Digital Graphics II
1.20 hrs lecture, 0.80 hrs lab
Units: 2.00
Cross-referenced Course: ART-161B, GA-161B
Prerequisite: GA/ART/CAOT-161A or equivalent
Accepted For Credit: CSU
This course is a continuation of CAOT-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)

CAOT-164 Introduction to FrontPage
0.30 hrs lecture, 0.90 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 2D Drafting with AutoCAD
3.00 hrs lecture, 1.80 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 3D Drafting with AutoCAD
3.00 hrs lecture, 1.80 hrs lab
Units: 3.00
Advisory: CAOT-166
Accepted For Credit: CSU
This course introduces the advanced drafting concepts of AutoCAD for 3D design and for connecting with other programs. (GC)

CAOT-172A Beginning Word
0.30 hrs lecture, 0.90 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
0.30 hrs lecture, 0.90 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
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Advisory: CS-101L or CAOT-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
0.30 hrs lecture, 0.90 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
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Cross-referenced Course: GA-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)

CAOT-193A Beginning Excel
0.30 hrs lecture, 0.90 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 basic commands, developing spreadsheet models, and using printing options. Repeatable = 1 time (GC)
CAOT-193B Intermediate Excel
0.30 hrs lecture, 0.90 hrs lab
Units: 0.50
Advisory: CAOT-193A; eligible for ENGL-151B, ENGL-163
This is an intermediate course in the use of microcomputer spreadsheet for business applications. Topics include using mixed cell references, large worksheets, simple database functions, charts and working with multiple worksheets. Repeatable = 1 time (GC)

CAOT-193C Advanced Excel
0.30 hrs lecture, 0.90 hrs lab
Units: 0.50
Advisory: CAOT-193B; 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
1.20 hrs lecture, 3.40 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
4.70 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
9.40 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
14.10 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
18.80 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
4.30 hrs lecture, 13.00 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
6.80 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: Math, Science, and Technology

CNET-101 Introduction to Computers and Information Technology
3.40 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 and 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  
3.40 hrs lecture, 3.40 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-151B and 163; eligible for MATH-152  
Accepted For Credit: CSU  
This course includes hardware and software topics relevant to the personal computer. Topics include hardware troubleshooting. Emphasis is placed on developing essential troubleshooting and repair skill and preparation for the A+ certification exam. (Formerly CS-181) Repeatable = 3 times (GC)  

CNET-114  How Technology Works  
3.40 hrs lecture, 3.40 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 gases, heat transfer, electricity, magnetism, 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, iPods transist sound, electronic thermometers measure temperature, solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)  

CNET-115  Introduction to Robotics and Automated Systems  
3.40 hrs lecture, 3.40 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 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  
3.40 hrs lecture, 3.40 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. (Formerly CS-138A) (GC)  

CNET-136  Database Fundamentals II: Database Backup and Recovery  
3.40 hrs lecture, 3.40 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 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. (Formerly CS-138B) Repeatable = 2 times (GC)  

CNET-137  Introduction to SQL and PL/SQL Programming  
3.40 hrs lecture, 3.40 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 and PL/SQL programming languages. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. In addition, students learn to create PL/SQL blocks of application code that can be shared by multiple forms, reports, and data management applications. Demonstrations and hands-on practice reinforce the fundamental concepts. Repeatable = 2 times (GC)  

CNET-138  PL/SQL Programming  
3.40 hrs lecture, 3.40 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. (Formerly CS-137B) Repeatable = 2 times (GC)  

CNET-139A  Database Client and Internet Forms Developer System  
1.80 hrs lecture, 1.80 hrs lab  
Units: 2.00  
Prerequisite: CS-137B or CNET-138  
Accepted For Credit: CSU  
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. (Formerly CS-137C) Repeatable = 2 times (GC)  

CNET-139B  Database Reports Internet Developer System  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Prerequisite: CS-137B or CNET-138  
In this course, students build reports and run them on the Web. Working in a graphical user interface environment, students learn to retrieve, display, format data, create complex reports and embed graphical charts. The course covers building reports for the Web, using the Reports Server, calling Java applets, using reports administration and security. (Formerly CS-137D) Repeatable = 2 times (GC)
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-150** Network Operating Systems
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Accepted For Credit: CS-101 or CNET-101
Advisory: CS-101, CNET-101, or equivalent

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 installation procedures, security issues, back up procedures and remote access. This course provides the foundation for student preparing to take the CompTIA A+ certification exam. (Formerly CS-180) Repeatable = 3 times (GC)

**CNET-152** Data Communications
2.30 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-155A** LAN Network Design (Cisco Certified Networking Academy CCNA I)
1.80 hrs lecture, 5.40 hrs lab
Units: 3.00
Advisory: CS-152 or CNET-152; CS-180 or CNET-150
Accepted For Credit: CSU

This is the first of four courses designed to introduce students to the networking field. The course focuses on network terminology and protocols, local area networks (LANs), wide area networks (WANs), Open System Interconnection (OSI) models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing, and network standards. 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. (Formerly CS-186A) Repeatable = 3 times (GR)
CNET-155B  
**Router Configuration and Routing (Cisco Certified Networking Academy CCNA 2)**
- 1.80 hrs lecture, 1.80 hrs lab
- Units: 2.00
- Prerequisite: CS-166A/B or CNET-155A/B
- 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. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. This course is normally taught over an 8-week period. (Formerly CS-186B) Repeatable = 3 times (CR)

CNET-156A  
**Routing and Switching (Cisco Certified Networking Academy CCNA 3)**
- 1.80 hrs lecture, 1.80 hrs lab
- Units: 2.00
- Prerequisite: CS-186A/B or CNET-155A/B
- Accepted For Credit: CSU
- This is the third of four courses in the CCNA sequence. The course focuses on advanced IP addressing techniques (Variable Length Subnet Masking [VLSM]), intermediate routing protocols (RIP v2, single area OSPF, EIGRP), command line interface configuration of switches, Ethernet switching, Virtual LANs (VLANs), Spanning Tree Protocol (STP), and VLAN Trunking Protocol (VTP). In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. This course is normally taught over an 8-week period. (Formerly CS-186C) Repeatable = 3 times (CR)

CNET-156B  
**WAN Design and Support (Cisco Certified Networking Academy CCNA 4)**
- 1.80 hrs lecture, 1.80 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 course focuses on advanced IP addressing techniques (Network Address Translation [NAT], Port Address Translation [PAT], and DHCP), WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, network management, and introduction to optical networking. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. This course is normally taught over an 8-week period. (Formerly CS-186D) Repeatable = 3 times (CR)

CNET-157  
**TCP/IP and Internetworking**
- 3.40 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**
- 3.40 hrs lecture, 3.40 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. (Formerly CS-186E) Repeatable = 3 times (CR)

CNET-160A  
**Microsoft Client Operating Systems**
- 1.80 hrs lecture, 1.80 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. (Formerly CS-180A) Repeatable = 3 times (CR)

CNET-161A  
**Desktop Support I - Supporting Users**
- 1.80 hrs lecture, 1.80 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 (CR)

CNET-161B  
**Desktop Support II - Supporting Applications**
- 1.80 hrs lecture, 1.80 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, by 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 (CR)

CNET-162A  
**Microsoft Server Operating Systems**
- 1.80 hrs lecture, 1.80 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 MCSA 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. (Formerly CS-180B) Repeatable = 3 times (CR)

---

2006-2007 OHLONE COLLEGE CATALOG
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Advisory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-162B</td>
<td>Windows Network Infrastructure Administration</td>
<td>2.00</td>
<td>CS-180 or CNET-150</td>
<td>CS-180A or CNET-160A; CS-180B or CNET-162A; CS-157 or CNET-157; CS-152 or CNET-152</td>
<td>This course prepares students 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. (Formerly CS-182A) Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>CNET-163</td>
<td>Planning a Microsoft Windows Networks Infrastructure</td>
<td>2.00</td>
<td>CS-180 or CNET-150</td>
<td>CS-180A or CNET-160A; CS-180B or CNET-162A</td>
<td>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. (Formerly CS-183A) Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>CNET-164A</td>
<td>Microsoft Directory Services</td>
<td>2.00</td>
<td>CS-180 or CNET-150</td>
<td>CS-180A or CNET-160A; CS-180B or CNET-162A</td>
<td>This course prepares students to install, configure, and administer Microsoft Windows Active Directory services. The focus is on implementing Group Policy and understanding the Group Policy tasks required to centrally manage users and computers. Students are prepared 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. (Formerly CS-182B) Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>CNET-164B</td>
<td>Designing Microsoft Windows Directory Services Infrastructure</td>
<td>2.00</td>
<td>CS-180 or CNET-150</td>
<td>CS-180A or CNET-160A; CS-180B or CNET-162A</td>
<td>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. (Formerly CS-183B) Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>CNET-165A</td>
<td>Designing a Secure Microsoft Windows Network</td>
<td>2.00</td>
<td>CS-180 or CNET-150</td>
<td>CS-180A or CNET-160A; CS-180B or CNET-162A; CS-182A or CNET-162B; CS-182B or CNET-164A</td>
<td>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 - a core requirement on the MCSE track. This course is normally taught over an 8-week period. (Formerly CS-183C) Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>CNET-165B</td>
<td>Microsoft Internet Security and Acceleration Server (ISA)</td>
<td>2.00</td>
<td>CS-180A or CNET-160A; CS-180B or CNET-162A; CS-157 or CNET-157</td>
<td>This course prepares students for the Microsoft Certified Internet/MCSE certifications. This course is normally taught over an 8-week period. (Formerly CS-184) Repeatable = 3 times (GC)</td>
<td></td>
</tr>
<tr>
<td>CNET-165C</td>
<td>Administering Security for Windows 2003</td>
<td>2.00</td>
<td>CS-157 or CNET-157; CS-180A or CNET-160A; CS-180B or CNET-162A</td>
<td>This course provides the skills and knowledge necessary to install, configure, administer, and support the security services and tools in the Windows 2003 Server 2003 operating system. In addition, this course will help students to prepare for the Microsoft Certified Internet/MCSE examination. This course is normally taught over an 8-week period. (Formerly CS-184A) Repeatable = 3 times (GC)</td>
<td></td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Network Application Administration I - Email (Exchange)</td>
<td>2.00</td>
<td>CS-180A or CNET-160A; CS-180B or CNET-162A</td>
<td>This course teaches the knowledge and skills necessary to install, configure, and administer Microsoft Exchange and also allows them to prepare for the corresponding Microsoft Certified Professional (MPC) exam, an elective requirement on the MCSA and MCSE track. This course is usually taught over an 8-week period. (Formerly CS-184A) Repeatable = 3 times (GC)</td>
<td></td>
</tr>
<tr>
<td>CNET-168A</td>
<td>Network Application Administration II - Database (SQL)</td>
<td>2.00</td>
<td>CS-180A or CNET-160A; CS-180B or CNET-162A</td>
<td>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 normally taught over an 8-week period. (Formerly CS-184B) Repeatable = 3 times (GC)</td>
<td></td>
</tr>
</tbody>
</table>
CNET-170  Network Security  
3.40 hrs lecture, 3.40 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, Operational/Organizational Security. This course provides the foundation for students preparing to take the CompTIA Security+ certification exam. (Formerly CS-187A) Repeatable = 3 times (GC)

CNET-171  Information Security  
3.40 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. (Formerly CS-187B) Repeatable = 3 times (GC)

CNET-172A  Cisco Network Security I (CCSP)  
1.80 hrs lecture, 1.80 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)  
1.80 hrs lecture, 1.80 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  

This course focuses on the overall security process 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)  
1.80 hrs lecture, 5.40 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 first of four courses of the advanced study of Cisco Networking Academy. This course is designed to provide students with classroom and laboratory experience in scaling IP networks. Students learn to use VLSM, private addressing, and NAT optimize IP address utilization. The majority of the course content related to learning how to implement the RIP v2, 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) exam: Building Scalable Cisco Networks (BCSN). This course is normally taught over an 8-week period. (Formerly CS-188A) Repeatable = 3 times (GC)

CNET-183  Remote Access Networks (Cisco Certified Networking Academy CCNP 2)  
1.80 hrs lecture, 5.40 hrs lab  
Units: 3.00  
Prerequisite: CS-186A-D; or CNET-155A/B and CNET-156A/B; or CCNA certification  
Accepted For Credit: CSU  

This is the second of four courses of the advanced study of Cisco Networking Academy. This course introduces students to the implementation of Cisco routers in WAN applications. The course focuses on the selection and implementation of the appropriate Cisco IOS services required to build intranet remote access links. Students will develop skills with the specific WAN technologies of analog dialup, ISDN BRI and PRI, Frame Relay, broadband, and VPN. This hands-on, lab-oriented course stresses the design, implementation, operation, and level 1 troubleshooting of common WAN connectivity options. This course is normally taught over an 8-week period. (Formerly CS-188B) Repeatable = 3 times (GC)

CNET-184  Advanced Switching (Cisco Certified Networking Academy CCNP 3)  
1.80 hrs lecture, 5.40 hrs lab  
Units: 3.00  
Prerequisite: CS-186A-D; or CNET-155A/B and CNET-156A/B; or CCNA certification  
Accepted For Credit: CSU  

This is the third of four courses of the advanced study of Cisco Networking Academy. Students will learn how to build campus networks using multilayer switching technologies over high speed Ethernet. This course introduces students to the deployment of the state-of-the-art campus LANs. The course focuses on the selection and implementation of the appropriate Cisco IOS services to build reliable scalable muli-layer switched LANs. Students will develop skills with VLANs, VTP, IPSEC, IPX routing, multilayer switching, redundancy, Cisco AVVID solutions, QoS issues, campus LAN security, and emerging transparent LAN services. This hands-on, lab-oriented course stresses the design, implementation, operation, and troubleshooting of switched and routed environments. This course is normally taught over an 8-week period. (Formerly CS-188C) Repeatable = 3 times (GC)

CNET-185  Internetwork Troubleshooting (Cisco Certified Networking Academy CCNP 4)  
1.80 hrs lecture, 5.40 hrs lab  
Units: 3.00  
Prerequisite: CS-186A-D; or CNET-155A/B and CNET-156A/B; or CCNA certification  
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: Cisco Internetwork Troubleshooting (CIT). Instruction includes troubleshooting methodology, network documentation, and debug. This course is normally taught over an 8-week period. (Formerly CS-188D) Repeatable = 3 times (GC)

CNET-195A1  Work Experience Education - Vocational  
4.70 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-104A Visual Basic.NET Programming
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: MATH-152 or MATH-153; CS-101, CNET-101, or equivalent
Accepted For Credit: CSU and 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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: CS-104A or equivalent
Accepted For Credit: CSU and 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
3.40 hrs lecture, 3.40 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 using XML, JavaScript, Visual Basic.NET, or CA.NET programming languages. Security and debugging will also be covered in class. (GC)

CS-113 Discrete Mathematics for Computers
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: MATH-163
Advisory: MATH-152 or equivalent
Accepted For Credit: CSU and 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 face strategies. This course is intended for a general audience with no prior programming experience. (GC)
CS-116  C++ Programming: An Object-Oriented Language
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: CS-102 or CS-112 or equivalent
Accepted For Credit: CSU and UC

This intermediate-level programming course is intended for those students who have already 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
3.40 hrs lecture, 3.40 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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: CS-102 or CS-112 or equivalent
Accepted For Credit: CSU and 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++
3.40 hrs lecture, 3.40 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
3.40 hrs lecture, 3.40 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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: CS-116
Advisory: Completion of, or concurrent enrollment in, CS-113
Accepted For Credit: CSU and 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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: CS-101, CNET-101, or equivalent; MATH-152
Accepted For Credit: CSU and 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-126  Internet Security Programming
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: CS-104A and CS-170
Accepted For Credit: CSU

This course is designed to provide students with the knowledge and skills required to develop secure applications running on the Internet. The course focuses on the latest industry security mechanisms including Digital Signature, Public Key Infrastructure (PKI), and Secure Sockets Layer (SSL). Repeatable = 2 times (GC)

CS-129A  Software Testing
3.00 hrs lecture, 1.80 hrs lab
Units: 3.00
Accepted For Credit: CSU

This is an introductory course in software testing. Students will learn the principles and techniques for software testing, including test design, testing automation, test management, test strategies, bug report and bug tracking system. Advice on how to match the selection of practices to the circumstances of the sample projects is presented. Repeatable = 2 times (GC)

CS-130  Systems Analysis
3.40 hrs lecture
Units: 3.00
Prerequisite: CS-101, CNET-101, or equivalent
Accepted For Credit: CSU

This course presents the methods involved in data processing-oriented business system planning: analysis, design, implementation, and evaluation. Problem definition, scheduling, and documentation techniques including CASE approach, structured analysis and prototyping will also be considered. Typical MIS computer applications will be surveyed. (GC)

CS-131  Computing Concepts in Biotechnology
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Cross-referenced Course: BIOT-131
Accepted For Credit: CSU

This course introduces the basic computing concepts, the most commonly used computer algorithms, and programming languages in biotechnology. (GC)

CS-132  DNA Computing
1.20 hrs lecture
Units: 1.00
Cross-referenced Course: BIOT-132
Accepted For Credit: CSU

This course introduces DNA-related matters, the basics of biochemistry, language, and computing theory. (GC)

CS-133  SAS Programming
3.00 hrs lecture, 1.80 hrs lab
Units: 3.00
Cross-referenced Course: BIOT-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 biostatistical data analysis by using core elements of the SAS system programming language and procedures. (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-143</td>
<td>Advanced SAS Programming</td>
<td>3.00</td>
<td>3.00</td>
<td>1.80</td>
</tr>
<tr>
<td></td>
<td>Cross-referenced Course: BIOT-143 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)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS-144</td>
<td>Introduction to UNIX/Linux</td>
<td>2.30</td>
<td>3.40</td>
<td>3.40</td>
</tr>
<tr>
<td></td>
<td>Cross-referenced Course: CNET-146</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advisor: CS-180 or CNET-150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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 internet working, 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)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS-146</td>
<td>UNIX/Linux System Administration I</td>
<td>3.40</td>
<td>3.40</td>
<td>3.40</td>
</tr>
<tr>
<td></td>
<td>Cross-referenced Course: CNET-146; CS-180 or CNET-150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advisor: CNET-147</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This hands-on 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)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS-147</td>
<td>UNIX Shell Programming</td>
<td>3.40</td>
<td>3.40</td>
<td>3.40</td>
</tr>
<tr>
<td></td>
<td>Cross-referenced Course: CNET-147</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advisor: CS-102</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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. This course is normally offered in a nine week format. (GC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS-148A</td>
<td>UNIX/Linux System Administration II</td>
<td>3.40</td>
<td>3.40</td>
<td>3.40</td>
</tr>
<tr>
<td></td>
<td>Cross-referenced Course: CNET-148; CS-180 or CNET-150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advisor: CNET-147</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS-149</td>
<td>PERL Programming</td>
<td>3.40</td>
<td>3.40</td>
<td>3.40</td>
</tr>
<tr>
<td></td>
<td>Cross-referenced Course: CNET-149</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advisor: CS-102, CS-104A, CS-125, CS-146, CNET-147,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CS-147 or CNET-147</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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-177 E-Commerce
3.40 hrs lecture
Units: 3.00
Prerequisite: CAOT-153
Advisory: 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
3.40 hrs lecture
Units: 3.00
Advisory: CS-176, CS-175
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 Syntax and Specification Language). Repeatable = 1 time (GC)

CS-179 Dynamic Web with ColdFusion
3.40 hrs lecture
Units: 3.00
Advisory: 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
0.60 hrs lecture, 1.80 hrs lab
Units: 1.00
Cross-referenced Course: CHEM-190, GEOG-190, BIOL-190, ENGL-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
4.70 hrs lab
Units: 1.00
Advisory: Refer to Work Experience Education Department Notes
Account 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
9.40 hrs lab
Units: 2.00
Advisory: Refer to Work Experience Education Department Notes
Account 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
14.10 hrs lab
Units: 3.00
Advisory: Refer to Work Experience Education Department Notes
Account 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
18.80 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
6.80 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: Language Arts, Library, and Social Sciences

CFS-100  Introduction to Nutrition
2.30 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 is discussed. Nutrition myths and misinformation are explored and evaluated. The course is recommended for non-majors. (GC)

CFS-104A  Current Issues in Child Nutrition
2.30 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
3.40 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
3.40 hrs lecture
Units: 3.00
Accepted For Credit: CSU and 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 and Disease
3.40 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; i.e., 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
4.70 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
9.40 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
14.10 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
18.80 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)

DANCE
Division: Fine Arts, Business, and Broadcasting
(See Theatre and Dance)
DEAF PREPARATORY PROGRAM

Division: Deaf Studies and Special Services

DEAF-110A Introduction to English as a Second Language in American Sign Language
4.50 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
4.50 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
3.40 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
3.40 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-131A Intermediate Grammar I
3.40 hrs lecture
Units: 3.00
Advisory: DEAF-130A,B; DEAF-120A,B
This course is the first of two courses designed for 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)

DEAF-131B Intermediate Grammar II
3.40 hrs lecture
Units: 3.00
Advisory: DEAF-130A,B; DEAF-120A,B
This course is the second of two courses designed for 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)

DEAF-130A Literacy I
3.40 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
The focus of this course is on development of practical reading and practical language skills in applied settings. This course is the first of a two-semester English Literacy program for students in preparation for employment. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GC)

DEAF-130B Literacy II
3.40 hrs lecture
Units: 3.00
Advisory: DEAF-130A; Fluency in ASL
The focus of this course is on development of practical reading and practical language skills in applied settings. This course is the second semester of a two-semester English Literacy program for students in preparation for employment. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GC)

DEAF-140A Lifeskills Mathematics I
2.30 hrs lecture
Units: 2.00
Advisory: ASL Fluency
This course provides students with real world application of basic math skills in the areas of money management, banking, and consumerism. This is the first part of a two-semester course. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-140B Lifeskills Mathematics II
2.30 hrs lecture
Units: 2.00
Advisory: ASL Fluency
This course provides students with real world application of basic math skills in the areas of money management, banking, consumerism, and employment. This is the second part of a two-semester course. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-141A Workplace Communication I
3.40 hrs lecture
Units: 3.00
Advisory: ASL Fluency
This course focuses on workplace communication skills for employment preparation. Emphasis will be on written and signed communication with hearing co-workers and supervisors. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-141B Workplace Communication II
3.40 hrs lecture
Units: 3.00
Advisory: DEAF-141A; ASL Fluency
This course is taught in continuation of workplace communication skills for employment preparation. Emphasis will be on both written and signed communication with hearing co-workers and supervisors. This course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)
DEAF-143  Def Vocational Awareness  
1.20 hrs lecture, 3.40 hrs lab  
Units: 2.00  
Advisory: DEAF-145A and/or DEAF-145B  
This course provides deaf students opportunities to visit and tour a variety of Bay Area businesses. Students will learn to contact employers by using an interpreter on the phone to set up the field trips. While touring the work site students will apply practical interviewing skills using an interpreter for communication purposes to gather facts about work requirements, job duties, application procedures, and employment protocol. Not applicable to associate degree. Repeatable = 5 times (GR)  

DEAF-145A  Def Vocational Planning  
3.40 hrs lecture  
Units: 3.00  
Advisory: DEAF-143; ASL Fluency  
This course allows student job seekers to evaluate their own interests and the skills necessary for a successful job hunt to result in gainful employment. The course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)  

DEAF-145B  Job Seeking Strategies for Deaf Students  
3.40 hrs lecture  
Units: 3.00  
Advisory: ASL Fluency  
This course allows student job seekers to evaluate their own interests, skills, and aptitudes and relate them to employment. Students will develop strategies and practice specific skills necessary for a successful job hunt to result in gainful employment. The course is taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)  

DEAF-161  Introduction to the Deaf Community  
3.40 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  
2.30 hrs lecture, 3.40 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. Repeatable = 5 times (GR)  

DEAF-165B  Study Techniques: MS Excel and Introduction to the Internet and the World Wide Web  
2.30 hrs lecture, 3.40 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 only in ASL. Repeatable = 5 times (GR)  

DEAF-166A  Study Techniques: Introduction to Multimedia Photoshop, Ms PowerPoint, and Digital Camera  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Advisory: DEAF-166A; ASL Fluency  
Introductory course in the use of Photoshop, Microsoft PowerPoint, and use of digital camera to prepare students for college-level work. The course is taught only in ASL. Repeatable = 5 times (GR)  

DEAF-170A  Fundamentals of English Composition  
4.50 hrs lecture  
Units: 4.00  
Corequisite: DEAF-171A  
Advisory: DEAF-171A; 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 only in ASL. Not applicable to associate degree. Repeatable = 5 times (GR)  

DEAF-170B  Principles of English Composition  
4.50 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  
3.40 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  
3.40 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  
4.50 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  
4.50 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  
3.40 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  
3.40 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  
3.40 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)

DEAF-176A  Academic Vocabulary I  
2.30 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 antonyms, 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  
2.30 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  
4.50 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  
4.50 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  
2.30 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-exploitation 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  
9.40 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-195A3  Work Experience Education - Vocational  
14.10 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  
18.80 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-311  Introduction to American Deaf Culture  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B, ENGL-163; fluency in ASL; Accepted For Credit: CSU; Gallaudet  
Introduction to the social, cultural, and sociolinguistic characteristics of Deaf people. Taught in ASL only. Repeatable = 5 times (GC)

DEAF-312  Linguistics of ASL  
3.40 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This is an orientation to the field of Deaf education with a focus on historical and current objectives, techniques, and results. The course is taught in ASL only. Repeatable = 5 times (GR)

DEAF-331 Counseling the Deaf
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
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-332 Development of the Deaf Child
3.40 hrs lecture
Units: 3.00
Prerequisite: Certificate of Completion in Deaf Education
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
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-340 Recreation Techniques for Deaf Students
3.40 hrs lecture
Units: 3.00
Prerequisite: Certificate of Completion in Deaf Education
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
This course provides students with an overview of recreation techniques to be used with deaf school-age students. The course is taught in ASL only. Repeatable = 5 times (GR)

DEAF-342 Report Writing
1.20 hrs lecture
Units: 1.00
Prerequisite: Certificate of Completion in Deaf Education
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
This course provides students with an overview of the reporting system that is in place at the California School for the Deaf. Emphasis will be placed on writing clear, concise reports. The course is taught in ASL only. Repeatable = 5 times (GR)

DEAF-343 Field Work in Deaf Education
10.20 hrs lab
Units: 3.00
Prerequisite: Certificate of Completion in Deaf Education
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
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
11.80 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)

ECS-195A1 Work Experience Education - Vocational
4.70 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
9.40 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)

ECS-195A3 Work Experience Education - Vocational
14.10 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)

ECS-195A4 Work Experience Education - Vocational
18.80 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
3.40 hrs lecture, 3.40 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. This course is a prerequisite for all other Early Childhood Studies courses. (GC)

ECS-301 Early Childhood Growth and Development
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A; ECS-300 and ECS-304
Accepted For Credit: CSU and 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**  
4.50 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**  
3.40 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**  
3.40 hrs lecture, 3.40 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**  
3.40 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**  
3.40 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**  
2.30 hrs lecture, 3.40 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**  
2.30 hrs lecture, 6.80 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**  
2.30 hrs lecture, 10.20 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. (GC)

**ECS-307B3**  
**Intermediate Practicum Working With Young Children in the Child Lab**  
2.30 hrs lecture, 3.40 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**  
2.30 hrs lecture, 6.80 hrs lab  
Units: 4.00  
Prerequisite: ECS-307A3, ECS307A4, 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-307B5**  
**Intermediate Practicum Working With Young Children in the Child Lab**  
2.30 hrs lecture, 10.20 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**  
2.30 hrs lecture, 3.40 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
2.30 hrs lecture, 6.80 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
2.30 hrs lecture, 10.20 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
3.40 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
3.40 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 relation 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
3.40 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
3.40 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
3.40 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
3.40 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
3.40 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 story telling 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
3.40 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
2.30 hrs lecture, 3.40 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
2.30 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. Not applicable to associate degree. Repeatable = 3 times (GC)

ECS-320 Introduction to Family Child Care Homes
1.20 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 degrees. (CR)

ECS-321 Supervision in Early Childhood Programs
3.40 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. (CR)

ECS-322 Mentoring and Supervision in Early Childhood Programs
2.30 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
3.40 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
3.40 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 (CR)

ECS-325A Workshop Series for Parents and Teachers
0.60 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. Units are awarded based on student progression in the curriculum. Not applicable to associate degree. Repeatable = 3 times or 4 units (CR)

ECS-325AI Workshop Series for Parents and Teachers
1.20 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. Units are awarded based on student progression in the curriculum. Not applicable to associate degree. Repeatable = 3 times or 4 units (CR)

ECS-326A Parent Participation
0.60 hrs lecture, 1.80 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 Advanced Parent Participation
0.60 hrs lecture, 1.80 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 of 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 School Age Child Development
3.40 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
3.40 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)
EDUC-191B Tutor Training Part II
2.30 hrs lecture
Units: 2.00
Prerequisite: ECS Certificate of Achievement
Advisory: Current employment as Director/Administrator
Accepted For Credit: CSU
This course provides ongoing 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)

EDCS-330 Second Helping for Family Childcare Providers
2.30 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: Language Arts, Library, and Social Sciences

EDUC-101 Exploring Education
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU and 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. (CR)

EDUC-191A Tutor Training Part I
0.60 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 for at least 25 hours. 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
0.60 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 for at least 25 hours. Leads to CRLA certification. Repeatable = 1 time (CR)

ENGNI-101 Introduction to Engineering
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course examines the engineering career: requirements, ethics, salaries, organization, management, registration, and degree planning. (GC)

ENGNI-114 How Technology Works
3.40 hrs lecture, 3.40 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 underlying 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 gases, 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, iPods transmit sound, electronic thermometers measure temperature, solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)

ENGNI-115 Engineering Communication
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course covers the principles of graphic expression by means of technical sketching, instrument drawing, and computer aided drafting. (GC)

ENGNI-120 Engineering Mechanics - Statics
3.40 hrs lecture
Units: 3.00
Corequisite: PHYS-140 and MATH-101B
Accepted For Credit: CSU and UC
This course is a study of force systems and equilibrium in two and three dimensional structures, distributed forces, friction, and virtual work. (CR) (CAN ENGR 8)

ENGNI-130 Electric Circuit Analysis
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: MATH-101B, PHYS-141
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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. (CR) (CAN ENGR 6)

ENGNI-131D Review of Engineering Concepts
1.20 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. Not applicable to associate degree. Repeatable = 3 times (CR)
ENGI-135 Introduction to Robotics and Automated Systems
3.40 hrs lecture, 3.40 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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: CHEM-101A, PHYS-140 with grade of C or better
Accepted For Credit: CSU and 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
0.60 hrs lecture, 1.80 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
4.70 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
9.40 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
14.10 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
18.80 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)

ENGLISH

ENGL-101A Reading and Written Composition
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: ENGL-151B with a grade of C or better
Accepted For Credit: CSU and 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 in writing—in sentence, paragraph, and thesis—development skills. (GR) (CAN ENGL 2 or ENGL-101A + ENGL-101B = CAN ENGL SEQ A)

ENGL-101B Reading and Composition (Introduction to Literature)
4.50 hrs lecture
Units: 4.00
Prerequisite: Completion of ENGL-101A with a grade of C or better
Accepted For Credit: CSU and 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)

ENGL-101C Critical Thinking and Composition
3.40 hrs lecture
Units: 3.00
Prerequisite: Completion of ENGL-101A with a grade of C or better
Accepted For Credit: CSU and UC
Students will read and evaluate essays in a critical, logical way. The emphasis will be upon critical analysis and upon the students’ development of effective, written arguments. (GR)

ENGL-103 Writing That Works
3.40 hrs lecture
Units: 3.00
Prerequisite: ENGL-151B with a grade of C or better, or equivalent; or appropriate skill level demonstrated through the assessment process
This course focuses on reading, writing, research, argument, and critical analysis as they apply to the expository prose of the workplace. Students will increase the fluency, accuracy, and power of their prose, while acquiring sentence, paragraph, and essay development skills. (GR)

ENGL-104 The Short Story
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
Students read and discuss a wide variety of short stories. The short story is seen as a reflection of historical and contemporary concerns, as a happy entertainment alternative to television, and as a traditional and experimental literary form. (GC)
ENGL-105A Survey of American Literature
3.40 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU and UC
This course focuses on the literary productions of America from its beginning to its present day. Students will read and discuss classic American short stories, poetry, drama, and novels and will become familiar with great American writers. (GC) (CAN ENGL 14)

ENGL-105B Survey of English Literature
3.40 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU and UC
This course focuses on the literary productions of England from the Middle Ages to the present day. Students will read and discuss classic British poetry, essays, dramas, short stories, and novels and will become familiar with great English writers. (GC)

ENGL-106 Censorship and Literature
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: JOUR-106
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
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)

ENGL-107 Literature and Film
3.40 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU and UC
“Lights, camera, action!” Hundreds of works of literature have been made into films, with varying degrees of success. If you’ve ever been disappointed (or thrilled) by the film version of a book you’ve read, you know that film adaptations range from “two thumbs way up” to “had me gagging on my popcorn.” This course will examine the relationships between literature and film, comparing and contrasting the two media. (GC)

ENGL-111A Beginning Creative Writing
3.40 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU and UC
This course includes experimentation with creative principles in general, and with the writing of fiction and poetry in particular, and a critical analysis of the student’s work. (GC) (CAN ENGL 6)

ENGL-111B Intermediate Creative Writing
3.40 hrs lecture
Units: 3.00
Prerequisite: ENGL-111A or equivalent
Accepted For Credit: CSU and UC
This course provides students the opportunity to experiment with creative principles in general and with the writing of fiction and poetry; critical analysis of students’ work. (GC)

ENGL-112 Modern Fiction
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU and UC
The themes of love and sexuality, family conflict, coming of age, and the individual in society are explored in the fiction of modern writers such as Toni Morrison, Amy Tan, John Updike, Kafka, and others. (GC)

ENGL-113 Poetry
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101B
Accepted For Credit: CSU and UC
This course examines traditional and contemporary poetry and poets. It includes discussion of sound, symbol, and spirit in poems by major poets like Shakespeare, Sylvia Plath, Wordsworth, Frost, Emily Dickinson, and others. (GR) (CAN ENGL 20)

ENGL-114 World Mythology
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
This course is a study of significant myths and legends with emphasis on Greek/Roman, Nordic (Norse), and Hebrew/Christian. Students also study other mythological systems of various cultures through independent research. Focus is on literature. (GC)

ENGL-115 Women in Literature
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: WS-115
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
Students will read, discuss, and write about short stories, novels, poetry, drama, and essays of British and American women writers past and present. (GC)

ENGL-117 Science Fiction and Fantasy
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
A sampling of science fiction and fantasy from traditional space voyages, sword and sorcery to more sophisticated, modern forms are studied in this course. (GC)

ENGL-118 Introduction to Shakespeare
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
This course introduces the students to the Elizabethan era, to drama as a literary form, and to the plays and poems of William Shakespeare. (GC)

ENGL-119 The Gothic Novel
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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-127 Autobiography: Writing Journals, Memoirs, and Family History
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This is a writing course for those who wish to work with their own experiences in autobiography, personal essay, story or journal forms. The course encourages students to appreciate and record incidents in their own and their family’s past and present, to learn basic research techniques, to organize their material, and to write it up effectively. Students will also discuss extracts from published autobiographical works. (GC)
ENGL-152A1 Writing Practice
0.60 hrs lecture
Units: 1.00
Advisory: Completion of ENGL-151B
This course provides writing practice of 500-1000 word essays with grammar/usage instruction as required to raise the level of writing to ENGL-101A entry level. Most writing will be based on readings. Not applicable to associate degree. Repeatable = 2 times (CR)

ENGL-152A5 Writing Practice
0.90 hrs lecture, 2.60 hrs lab
Units: 1.50
Advisory: Completion of ENGL-151B
This course provides writing practice of 500-1000 word essays with grammar/usage instruction as required to raise the level of writing to ENGL-101A entry level. Most writing will be based on readings. Not applicable to associate degree. Repeatable = 2 times (CR)

ENGL-130 American Stories: Multicultural Autobiography and Memoir
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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-156 Introduction to Report and Technical Writing
3.40 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-162 Developmental Reading
3.40 hrs lecture, 1.20 hrs lab
Units: 3.00
Advisory: Concurrent enrollment in ENGL-151A or ENGL-151B
ENGL-162 is designed to improve literal and interpretive comprehension skills as well as to introduce study strategies such as listening, note-taking, and test-taking. Emphasis is placed on identifying main ideas, significant details, sequence of relationships, inferences and conclusions. Vocabulary skills including context clues, structural analysis, syllabication and pronunciation are developed. Not applicable to associate degree. Repeatable = 1 time (GC)

ENGL-163 Techniques of College Reading
3.40 hrs lecture, 1.20 hrs lab
Units: 3.00
Advisory: Placement or completion of ENGL-162 with a grade of C or better; concurrent enrollment in ENGL-151B
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. (GC)

ENGL-167 Speed and Critical Reading
3.40 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
3.40 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
3.40 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 in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)
ENGL-174  Spelling Improvement  
3.40 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 in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GR)

ENGL-175  Reading and Comprehension Improvement  
3.40 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 in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-176  Rapid Reading  
3.40 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  
3.40 hrs lab  
Units: 1.00  
Advisory: Eligible for ENGL-151B or equivalent  
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  
6.80 hrs lab  
Units: 0.00  
Advisory: 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)

ENGLISH AS A SECOND LANGUAGE  
Division: Language Arts, Library, and Social Sciences

ESL-121  English Idioms  
2.30 hrs lecture  
Units: 2.00  
Prerequisite: To enroll, students must place into ESL-181 or higher on the ESL 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. Repeatable = 3 times (GC)

ESL-122  News and Current Events for ESL Students  
2.30 hrs lecture  
Units: 2.00  
Prerequisite: To enroll, students must place into ESL-181 or higher on the ESL Placement 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. Repeatable = 3 times (GC)

ESL-150  Basic English Pronunciation/Accent Reduction  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Cross-referenced Course: SPCH-150  
Advisory: Concurrent enrollment in ESL-181  
Practice pronunciation in idiomatic expressions, phraseology, and rhythm inflections. Emphasis on individual needs in achieving effective oral communication. Not applicable to associate degree. Repeatable = 1 time (GC)

ESL-151  Introduction to Speech Communication Skills  
2.30 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. Repeatable = 1 time (GC)

ESL-153  Integrated Communication Skills for Learners of English  
2.30 hrs lecture, 1.20 hrs lab  
Units: 2.00  
Prerequisite: ESL placement at ESL-181 level or instructor signature  
This course is designed for ESL students to practice integrated English communication skills. It is open to all students whose native language is not English. There will be practice of reading, writing, speaking, and listening skills through hands-on language tasks. Not applicable to associate degree. Repeatable = 1 time (GC)

ESL-154  Integrated Communication Skills for Learners of English B  
2.30 hrs lecture, 1.20 hrs lab  
Units: 2.00  
Advisory: ESL placement  
This course is designed for ESL students to continue practice integrated English communication skills begun in ESL-153. It is open to all students whose native language is not English. There will be practice of reading, writing, speaking, and listening skills through hands-on language tasks. Not applicable to associate degree. Repeatable = 1 time (GC)

ESL-178  ESL Skills Lab  
3.40 hrs lab  
Units: 1.00  
2006-2007 OHLONE COLLEGE CATALOG
ESL-181LS  Listening and Speaking Skills, Level I
5.70 hrs lecture
Units: 5.00
Prerequisite: Based on ESL Placement 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. Repeatable = 3 times (GC)

ESL-181RW  Reading and Writing Skills, Level I
5.70 hrs lecture
Units: 5.00
Prerequisite: Based on ESL Placement 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. Repeatable = 3 times (GC)

ESL-182LS  Listening and Speaking Skills, Level II
5.70 hrs lecture
Units: 5.00
Prerequisite: ESL-181 and/or appropriate score on the ESL Placement Test may substitute for completion of ESL-181 (or ESL-181LS)
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, and basic sentence structure. Not applicable to associate degree. Repeatable = 3 times (GC)

ESL-182RW  Reading and Writing Skills, Level II
5.70 hrs lecture
Units: 5.00
Prerequisite: Appropriate score on the ESL Placement Test or the completion of ESL-181 or 181RW with a 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. Repeatable = 3 times (GC)

ESL-183LS  ESL Listening and Speaking, Level III
4.50 hrs lecture
Units: 4.00
Prerequisite: ESL-182LS with grade of C or better
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, beginning 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. Repeatable = 3 times (GC)

ESL-183RW  ESL Reading and Writing, Level III
4.50 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. Repeatable = 3 times (GC)

ESL-184R  Basic Reading Skills for Second Language Learners
3.40 hrs lecture, 1.20 hrs lab
Units: 3.00
Advisory: Concurrent enrollment in ESL-182RW
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)

ESL-184W  Second Language Writing Skills
3.40 hrs lecture
Units: 3.00
Prerequisite: ESL-182RW or appropriate skill level demonstrated through the placement process
This course focuses on the development of writing skills in ESL. Students will integrate previously studied grammar into their writing, working on sentence variety and grammatical, syntactical, and idiomatic fluency. Not applicable to associate degree. Repeatable = 1 time (GC)

ESL-365  ESL - Supervised Tutoring
5.70 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

Division: Language Arts, Library, and Social Sciences

FREN-101A  Elementary French
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: FREN-101A with a grade of C or better or 3 years of high school French
Accepted For Credit: CSU and 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
5.70 hrs lecture, 1.20 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 and 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
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: FREN-102A with a grade of C or better
Accepted For Credit: CSU and 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
3.40 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
1.80 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
3.40 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)

GEOGRAPHY
Division: Math, Science, and Technology

GEOG-101  Physical Geography
3.40 hrs lecture
Units: 3.00
Corequisite: GEOG-101L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course will focus on the interaction between humans and their physical environment emphasizing the natural features of weather and climate, land forms, soil, vegetation, earthquakes, and volcanism, water quality and environmental management. (GC) (CAN GEOG 2)

GEOG-101L  Physical Geography Laboratory
3.40 hrs lab
Units: 1.00
Corequisite: GEOG-101
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
GEOG-101L is designed to supplement GEOG-101. The lab will consist of practical exercises and observation in map analysis, weather elements, climatic regions, and the earth's landform features. This will include the use of weather maps, topographic maps, and climographs. (GR)

GEOG-102  Cultural Geography
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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-121  Introduction to Geographic Information Systems (GIS)
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Advisory: Some knowledge of desktop computing is advantageous
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-122  Environmental GIS
1.20 hrs lecture, 3.40 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
1.20 hrs lecture, 3.40 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
6.80 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)
GEOL-101 Introduction to Geology
3.40 hrs lecture
Units: 3.00
Corequisite: GEOL-101L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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-101L Physical Geology Laboratory
3.40 hrs lab
Units: 1.00
Corequisite: GEOL-101
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC

GEOL-101L is designed to supplement GEOL-101. The lab will consist of hands-on exercises that illuminate geology and make it come alive by relating it to real-life materials (rocks, minerals, fossils) and natural hazards such as earthquakes, volcanoes, landslides, etc. This will include working with hand specimens, maps, the study of global plate tectonics, and the use of the Internet. (GC)

GEOL-102 Introduction to Oceanography
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 1.00
Corequisite: GEOL-102
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC

GEOL-102L is designed to supplement GEOL-102. The lab will consist of hands-on exercises and two Saturday field trips that illuminate various aspects of ocean science. This will include working with maps, living and fossil specimens of marine life, Web-based study of global plate tectonics, field observations of marine rocks, fossils, and living organisms in tide pools, and the study of San Francisco Bay onboard a ship. (GC)

GEOL-103 Paleontology and Dinosaurs
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163; GEOL-103L recommended.
Accepted For Credit: CSU and 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-103L Paleontology Laboratory
3.40 hrs lab
Units: 1.00
Corequisite: GEOL-103
Advisory: Eligible for ENGL-151B, ENGL-163; ENGL-172
Accepted For Credit: CSU and 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)

GEOL-190 Scientific Research Methodology
0.60 hrs lecture, 1.80 hrs lab
Units: 1.00
Cross-referenced Course: CHEM-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)

GEOL-365 Supervised Tutoring
6.80 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)

GRAPHIC ARTS

Division: Fine Arts, Business, and Broadcasting

GA-109A Beginning Graphic Design I (Letter Forms and Typography)
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Cross-referenced Course: ART-109A
Advisory: ART-104A
Accepted For Credit: CSU

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)

GA-109B Beginning Graphic Design II
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Cross-referenced Course: ART-109B
Prerequisite: GA/ART-109A or equivalent
Accepted For Credit: CSU

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)
GA-110A Advanced Graphic Design I
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Cross-referenced Course: ART-110A
Prerequisite: GA/ART-109B or equivalent
Accepted For Credit: CSU
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)

GA-110B Advanced Graphic Design II
2.30 hrs lecture, 8.40 hrs lab
Units: 3.00
Cross-referenced Course: ART-110B
Prerequisite: GA/ART-110A or equivalent
Accepted For Credit: CSU
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)

GA-160A Computer Graphics I
3.40 hrs lecture, 10.20 hrs lab
Units: 4.00
Cross-referenced Course: ART-160A, BA-160A, CS-160A
Advisory: ART-101A
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. Repeatable = 3 times (GC)

GA-160B Computer Graphics II
3.40 hrs lecture, 10.20 hrs lab
Units: 4.00
Cross-referenced Course: ART-160B, BA-160B, CS-160B
Prerequisite: ART/GA/BA/CS-160A or equivalent
Advisory: ART-101A
Accepted For Credit: CSU
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)

GA-161A Digital Graphics I
1.20 hrs lecture, 6.80 hrs lab
Units: 2.00
Cross-referenced Course: ART-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)

GA-161B Digital Graphics II
1.20 hrs lecture, 6.80 hrs lab
Units: 2.00
Cross-referenced Course: ART-161B, CAOT-161B
Prerequisite: GA/ART/CAOT-161A or equivalent
Accepted For Credit: CSU
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)

GA-162 Digital Graphics Lab
3.40 hrs lab
Units: 1.00
Cross-referenced Course: ART-162
This class 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)

GA-163 Digital Arts Lab-Macintosh
1.80 hrs lab
Units: 0.50
Cross-referenced Course: ART-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)

GA-169A Digital Photography
1.20 hrs lecture, 8.40 hrs lab
Units: 2.00
Cross-referenced Course: ART-139A, CS-169A
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This photography course on the Macintosh computer is a personal training class based on the software application Adobe Photoshop. Students will learn to scan photographs, 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)

GA-169B Intermediate Digital Photography
1.20 hrs lecture, 8.40 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 class on the Macintosh computer utilizing two software applications, namely Adobe Photoshop and Apple QuicTime 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
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Cross-referenced Course: CAOT-188
Advisory: Eligible for ENGL-151B and ENGL-163
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 and Exercise Sciences

**HLTH-101 Health Science**
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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**
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: WS-150  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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 which 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: Language Arts, Library, and Social Sciences

**HIST-104A Western Civilization with a World Perspective**
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU and 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. This course is also offered in a self-paced format whereby students can complete the course at their own speed. (GC) (CAN HIST 2 OR HIST-104A + HIST-104B = CAN HIST SEQ A)

**HIST-104B Western Civilization with a World Perspective**
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU and 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. This course is also offered in a self-paced format whereby students can complete the course at their own speed. (GC) (CAN HIST 4 OR HIST-104A + HIST-104B = CAN HIST SEQ A)

**HIST-105 History of California**
3.40 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU and 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**
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: TD-107  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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**
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: CHS-102  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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-114 African-American History**
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and UC  
A history of African-Americans from the early 17th century to the present will be covered. Political, social, cultural, and economic experiences will be discussed. (GC)

**HIST-115 Asian-American History**
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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**
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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**
3.40 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU and 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 –
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163, HIST-117A/B
Accepted For Credit: CSU and 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-141 A History of Early Rock and Roll: Music and Culture of the 1950’s
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: IS-142, MUS-122
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the United States. The major figures of the 1950’s—Bill Haley, Fats Domino, Elvis Presley, Chuck Barry, and Little Richard—will be studied as examples of rock and roll music as an American popular culture form during the mid-twentieth century. (CC)

HIST-142 History of Rock and Roll Music
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: IS-143, MUS-123
Accepted For Credit: CSU and UC
The development of rock and roll music is studied from the Beatles to Led Zeppelin. Slides, music, and lecture material will analyze the cultural impact of recent rock music. (CC)

HIST-143 Rock Music Since 1970
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: MUS-125
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course looks at the development of popular music and culture since 1970. It will include looks at art rock, disco, new wave, reggae, rap, hip-hop, and related genres. (GR)

HIST-365 Supervised Tutoring
6.80 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 up to 3 times (NG)

INTERDISCIPLINARY STUDIES
Division: Fine Art, Business, and Broadcasting

IS-100 Survey of the Arts
3.40 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 and 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. The class is taught by three instructors, one from each area. (GC)

IS-100L Survey of the Arts Performance Attendance Lab
6.00 hrs lab/term
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 Gary Soren Smith Center for the Fine and Performing Arts. (NG)

IS-110 Introduction to Ethnic Studies
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: WS-120
Advisory: ENGL-101A
Accepted For Credit: CSU and 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. (GR)

IS-120 Women of the Western World
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: WS-120
Advisory: ENGL-101A
Accepted For Credit: CSU and 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. (GR)

IS-142 A History of Early Rock and Roll: Music and Culture of the 1950’s
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-141, MUS-122
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the United States. The major figures of the 1950’s—Bill Haley, Fats Domino, Elvis Presley, Chuck Barry, and Little Richard—will be studied as examples of rock and roll music as an American popular cultural form during the mid-twentieth century. (CC)

IS-143 History of Rock and Roll Music
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-142, MUS-123
Accepted For Credit: CSU and UC
The development of rock and roll music is studied from the Beatles to Led Zeppelin. Slides, music, and lecture material will analyze the cultural impact of recent rock music. (CC)

Photo courtesy of College Relations
INTERIOR DESIGN

Division: Fine Arts, Business, and Broadcasting

ID-150A  Interior Design Concepts  
3.40 hrs lecture  
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  
2.30 hrs lecture, 4.50 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  
2.30 hrs lecture, 3.40 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  
3.40 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  
2.30 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  
2.30 hrs lecture, 4.50 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  
2.30 hrs lecture, 8.40 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-155B  
Prerequisite: ART/ID/-153A 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  
2.30 hrs lecture, 4.50 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  
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-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)

ID-158  Textiles  
2.30 hrs lecture, 4.50 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  
1.20 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 through 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  
1.20 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  
1.80 hrs lab  
Units: 0.50  
Cross-referenced Course: ART-163, GA-163  
Accepted For Credit: CSU  
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 (GC)
**INTERPRETER TRAINING**

Division: Deaf Studies and Special Services

**INT-101** **Interpreting As a Career**
1.20 hrs lecture
Units: 1.00
Prerequisite: Acceptance into IPP
Corequisite: INT-107, INT-110, INT-112, INT-115
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**
3.40 hrs lecture
Units: 3.00
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**
3.40 hrs lecture
Units: 3.00
Prerequisite: Acceptance into 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)

**INT-110** **ASL-Eng/Eng-ASL Translation**
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Prerequisite: Acceptance into IPP
Corequisite: INT-106, INT-107, INT-112, INT-115
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)

**INT-112** **Applied Linguistics for Interpreters**
3.40 hrs lecture
Units: 3.00
Prerequisite: Acceptance into IPP
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)

**INT-115** **Interpreting Preparation Skills**
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Prerequisite: Acceptance into IPP
Corequisite: INT-106, INT-107, INT-110, INT-112
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)

**INT-120** **Consecutive Interpreting: English/ASL**
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: Completion of first semester of IPP courses with grade of C or better
Corequisite: INT-120 and INT-145
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)

**INT-121** **Consecutive Interpreting: ASL/English**
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: Completion of first semester IPP courses with a grade of C or better
Corequisite: INT-120 and INT-121
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. Interpreter miscues will be discussed. Repeatable = 1 time (GR)

**INT-145** **Practicum: Deaf Mentorship**
18.10 hrs lab
Units: 5.00
Prerequisite: Completion of first year IPP courses with grade of C or better
Corequisite: INT-120 and INT-121
This course is designed to provide IPP student’s 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)

**INT-160** **Simultaneous Interpreting: Eng/ASL**
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: Completion of first year IPP courses with grade of C or better
Corequisite: INT-161, INT-173, INT-175
This course is designed to give IPP students theoretical and practical experience in simultaneous interpreting. The target language is ASL. Skill focus includes developing dual task capabilities, whole language processing, discourse analysis, lag time, fluency, and sign clarity. Repeatable = 1 time (GR)

**INT-161** **Simultaneous Interpreting: ASL/Eng**
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: Completion of first year IPP courses with a grade of C or better
Corequisite: INT-160, INT-173, INT-175
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)

**INT-173** **Interpretation in Specialized Settings**
3.40 hrs lecture
Units: 3.00
Prerequisite: Completion of first year IPP courses with grade of C or better
Corequisite: INT-160,161,175
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)
INT-175 Specialized Interpreting Technique
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Prerequisite: Completion of first year IPP courses with grade of C or better
Corequisite: INT-160, INT-161, INT-173
This course is designed to give students the background, exposure, and strategies necessary when interpreting for specialized populations, i.e., foreign-born, deaf-blind, and oral Deaf adults. Specialized techniques that are taught include dialogic (interactive) interpreting, team interpreting, and interpreting for media presentation. Interpreting in a multi-cultural world will also be addressed. Repeatable = 1 time (GR)

INT-180 Ethics/Role/Responsibility
3.40 hrs lecture
Units: 3.00
Prerequisite: Completion of three semesters of IPP courses with grade of C or better
Corequisite: INT-181 and INT-190
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)

INT-181 Transliteration
2.30 hrs lecture, 3.40 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
16.10 hrs lab
Units: 5.00
Prerequisite: Completion of three semesters of IPP courses with grade of 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
1.20 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. Not applicable to associate degree. Repeatable = 3 times (CR)

INT-191B ASL Interpreting Workshops
2.30 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. Not applicable to associate degree. Repeatable = 3 times (CR)

INT-191C ASL Interpreting Workshops
3.40 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. Not applicable to associate degree. Repeatable = 3 times (CR)

INT-195A1 Work Experience Education - Vocational
4.70 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) (CC)

INT-195A2 Work Experience Education - Vocational
9.40 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) (CC)

INT-195A3 Work Experience Education - Vocational
14.10 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) (CC)

INT-195A4 Work Experience Education - Vocational
18.80 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) (CC)

ITALIAN
Division: Language Arts, Library, and Social Sciences

ITAL-101A Elementary Italian
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
This course is an introduction to the speaking, reading, and writing of Italian and includes fundamentals of grammar. (GR)

ITAL-101B Elementary Italian
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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
3.40 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture/Lab Hours</th>
<th>Prerequisites</th>
<th>Advisory</th>
<th>Cross-referenced Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPNS-101A</td>
<td>Elementary Japanese</td>
<td>5.00</td>
<td>5.70 hrs/1.20 hrs</td>
<td>Advisory: Eligible for ENGL-101A</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to speaking, understanding, reading, and writing Japanese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.</td>
<td></td>
<td></td>
<td>(GR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JPNS-101B</td>
<td>Elementary Japanese</td>
<td>5.00</td>
<td>5.70 hrs/1.20 hrs</td>
<td>Prerequisite: JPNS-101A or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Advisory: Eligible for ENGL-101A</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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>
<td></td>
<td></td>
<td>(GR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JPNS-102A</td>
<td>Intermediate Japanese</td>
<td>5.00</td>
<td>5.70 hrs/1.20 hrs</td>
<td>Prerequisite: JPNS-101B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course is a continuation of JPN 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>
<td></td>
<td></td>
<td>(GR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JPNS-102B</td>
<td>Intermediate Japanese</td>
<td>5.00</td>
<td>5.70 hrs/1.20 hrs</td>
<td>Prerequisite: JPN 102A</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course is a continuation of JPN 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>
<td></td>
<td></td>
<td>(GR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JPNS-110</td>
<td>Japanese Culture, Manner, and Conversation</td>
<td>3.00</td>
<td>3.40 hrs</td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></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. (GR)</td>
<td></td>
<td></td>
<td>(GR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JPNS-120A</td>
<td>Beginning Conversational Japanese</td>
<td>3.00</td>
<td>3.40 hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></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>
<td></td>
<td></td>
<td>(GC)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### JOURNALISM

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture/Lab Hours</th>
<th>Prerequisites</th>
<th>Advisory</th>
<th>Cross-referenced Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR-101A</td>
<td>Newswriting</td>
<td>3.00</td>
<td>3.40 hrs</td>
<td>Prerequisite: ENGL-101A with grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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>
<td></td>
<td></td>
<td>(GC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR-106</td>
<td>Censorship and Literature</td>
<td>3.00</td>
<td>3.40 hrs</td>
<td>Cross-referenced Course: ENGL-106</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Advisory: Eligible for ENGL-101A</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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>
<td></td>
<td></td>
<td>(GC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR-145</td>
<td>Digital Photojournalism</td>
<td>2.00</td>
<td>1.20 hrs/3.40 hrs</td>
<td>Cross-referenced Course: ART-145</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Advisory: ART-133A or equivalent photographic experience</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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>
<td></td>
<td></td>
<td>(GC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR-146</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>1.00</td>
<td>0.60 hrs/1.80 hrs</td>
<td>Cross-referenced Course: ART-146</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Advisory: ART-106A or ART-133A or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Staff members initiate, plan, and complete various 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)</td>
<td></td>
<td></td>
<td>(GC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR-147</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>2.00</td>
<td>1.20 hrs/3.40 hrs</td>
<td>Cross-referenced Course: ART-147</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Advisory: ART-106A or ART-133A or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Staff members initiate, plan, and complete various 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)</td>
<td></td>
<td></td>
<td>(GC)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
JOUR-148  Photography/Graphic Arts Newspaper Staff
1.20 hrs lecture, 6.80 hrs lab
Units: 3.00
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
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: BRDC-155
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
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. (CC) (CAN JOUR 4)

JOUR-170  Newspaper Writing and Editing Staff
0.60 hrs lecture, 1.80 hrs lab
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
1.20 hrs lecture, 3.40 hrs lab
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
1.20 hrs lecture, 6.80 hrs lab
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
0.60 hrs lecture, 1.80 hrs lab
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
1.20 hrs lecture, 3.40 hrs lab
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
1.20 hrs lecture, 6.80 hrs lab
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-175 is limited to editors. Repeatable = 3 times to a maximum of 9 units for JOUR-173-175 (GR)

JOUR-176  Advertising Staff
0.60 hrs lecture, 1.80 hrs lab
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 members’ 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
1.20 hrs lecture, 3.40 hrs lab
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 members’ 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  
1.20 hrs lecture, 6.80 hrs lab  
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 members' 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)

LEARNING SKILLS PROGRAM  
Division:  Deaf Studies and Special Services  

LSP-101  Learning Skills: Reading and Writing  
3.40 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 (GR)

LSP-102  Learning Skills: Quantitative Reasoning  
3.40 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 (GR)

LSP-365  Supervised Tutoring  
6.80 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:  Language Arts, Library, and Social Sciences  

LS-101  Introduction to Linear Algebra  
3.40 hrs lecture  
Units: 3.00  
Prerequisite: MATH-101B  
Accepted For Credit: CSU and UC  

This course introduces students to the research process. 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. (CR)

MATH-101A  Calculus with Analytic Geometry  
5.70 hrs lecture  
Units: 5.00  
Prerequisite: MATH-188 with C or better or equivalent  
Accepted For Credit: CSU and 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. (CR) (CAN MATH 18 or MATH-101A + MATH-101B = CAN MATH SEQ B or MATH-101A + MATH-101B + MATH-101C = CAN MATH SEQ C)

MATH-101B  Calculus with Analytic Geometry  
5.70 hrs lecture  
Units: 5.00  
Prerequisite: MATH-101A with a C or better or equivalent  
Accepted For Credit: CSU and UC  

This course includes techniques of integration, related applications, hyperbolic functions, infinite series, an advanced treatment of conics, parametric equations, and polar coordinates. (CR) (CAN MATH 20 or MATH-101A + MATH-101B = CAN MATH SEQ B or MATH-101A + MATH-101B + MATH-101C = CAN MATH SEQ C)

MATH-101C  Calculus with Analytic Geometry  
5.70 hrs lecture  
Units: 5.00  
Prerequisite: MATH-101B with C or better or equivalent  
Accepted For Credit: CSU and UC  

This course includes vector analysis, functions of several variables, partial derivatives, multiple integration, integration of vector valued functions, and applications. (CR) (CAN MATH 22 OR MATH-101A + MATH-101B + MATH-101C = CAN MATH SEQ C)

MATH-103  Introduction to Linear Algebra  
3.40 hrs lecture  
Units: 3.00  
Prerequisite: MATH-101B  
Accepted For Credit: CSU and 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. (CR) (CAN MATH 26)
MATH-104 Differential Equations
5.70 hrs lecture
Units: 5.00
Prerequisite: MATH-101B with C or better
Advisory: MATH-103, MATH-101C
Accepted For Credit: CSU and 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) (CAN MATH 24)

MATH-110 Introduction to Mathematical Software
0.60 hrs lecture, 1.80 hrs lab
Units: 0.50
Advisory: Eligible for MATH-101A
This course provides an introduction to computer algebra software (CAS). Topics will include two and three dimensional graphing,
alebra and calculus operations, and programming. This course is normally offered in a 9-week format. Repeatable = 1 time (CR)

MATH-151 Algebra I
5.70 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 using signed numbers,
operations on algebraic expressions, factoring, exponents, rational and radical expressions, linear equations and inequalities,
applications, graphs, and an introduction to systems of equations. (GR)

MATH-151A Algebra I (Part 1)
3.40 hrs lecture
Units: 2.50
Advisory: MATH-190 with grade of C or better or equivalent or placement evaluation
This course includes exponents, polynomials, factoring, rational and radical expressions, and applications. (GR)

MATH-151B Algebra I (Part 2)
3.40 hrs lecture
Units: 2.50
Prerequisite: MATH-151A 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-152 Algebra II
5.70 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 progressions, and the binomial theorem. (GR)

MATH-152A Algebra II (Part 1)
3.40 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 relations, functions and their graphs, systems of linear equations, exponential and logarithmic functions, the binomial expansion, and summation notation. (GR)

MATH-152B Algebra II (Part 2)
3.40 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 rational and radical expressions and equations, complex numbers, quadratic equations and inequalities, conic sections, and arithmetic and geometric sequences and series. (GR)

MATH-153 Intermediate Algebra
3.40 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 systems of linear equations, quadratic equations, relations and functions and their graphs, parabolas, exponential and logarithmic functions, and sigma notation. (GR)

MATH-155 Math for the Associate Degree
3.40 hrs lecture
Units: 3.00
Prerequisite: MATH-151 or MATH-151A or MATH-151B with a grade of C or better or equivalent or placement evaluation
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 workplace. (GR)

MATH-156 Math for Liberal Arts
3.40 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 and 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
5.70 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 and 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, statistical tables, and use of technology for developing statistical theory and applications. (GC) (CAN STAT 2)

MATH-160 Number Systems
3.40 hrs lecture
Units: 3.00
Prerequisite: MATH-152 or MATH-153 with grade of C or better
Accepted For Credit: CSU and UC
This is a survey course intended primarily for education majors planning to teach in the primary grades. Coverage includes various number systems, set theory, logic, mathematical reasoning, and an introduction to probability and statistics. There will be an emphasis on critical thinking, problem-solving, and the use of technology. (GR)
MATH-190A Basic Mathematics (Self-Paced)
1.20 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-190B Basic Mathematics (Self-Paced)
1.20 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-190C Basic Mathematics (Self-Paced)
1.20 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
3.40 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
0.60 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. Not applicable to associate degree. Repeatable = 2 times (CR)

MATH-365 Supervised Tutoring
6.80 hrs lab
Units: 0.60
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
3.40 hrs lecture, 3.40 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
3.40 hrs lecture, 3.40 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
0.30 hrs lecture, 0.90 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
0.30 hrs lecture, 0.90 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
2.30 hrs lecture, 3.40 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 pre-loaders. Then learn ActionScript, the powerful programming language in Flash, to add complex interaction to projects. Learn basic ActionScripting. This course is typically taught in two days. Repeatable = 1 time (GC)

MM-105 Web Site Design
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
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
0.30 hrs lecture, 0.90 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
3.40 hrs lecture, 3.40 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
0.30 hrs lecture, 0.90 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
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: MM-116 or MM-102A
Accepted For Credit: CSU

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)

MM-115 3D Animation
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: CS-101 or equivalent
Accepted For Credit: CSU

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)

MM-116 3D Modeling
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: MM-102A
Accepted For Credit: CSU

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)

MM-117 Advanced 3D Modeling and Animation
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: MM-115 or MM-116
Accepted For Credit: CSU

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)

MM-118 Introduction to Video Game Design
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Advisory: ENGL-101A
Accepted For Credit: CSU

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)

MM-119 Video Game Development
2.30 hrs lecture, 6.80 hrs lab
Units: 3.00
Prerequisite: MM-116 and MM-118
Advisory: MM-114 and MM-115
Accepted For Credit: CSU

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)

MM-120 Designing an On-Line Course
3.40 hrs lecture
Units: 3.00
Accepted For Credit: CSU

This course will focus on how to develop courses for the World Wide Web. We will survey distance learning models and presentation techniques. We will develop evaluation criteria and as a culmination, students will develop and test a module for the World Wide Web. Repeatable = 2 times (GC)
MM-160  Multimedia Portfolio Development
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: MM-105 or equivalent
Advisory: MM-102B
Accepted For Credit: CSU

This course will focus on the development of student portfolios of their work for presentation on CD-ROM and the World Wide Web. We will review the “cultures” of the multimedia industry, review job rolls and responsibilities, go on field trips, and critique student work. (GC)

MM-162  XHTML
2.30 hrs lecture, 6.80 hrs lab
Units: 4.00
Cross-referenced Course: CS-162
Advisory: CS-101 or CS-101L

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)

MM-195A1  Work Experience Education - Vocational
4.70 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)

MM-195A2  Work Experience Education - Vocational
9.40 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)

MM-195A3  Work Experience Education - Vocational
14.10 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)

MM-195A4  Work Experience Education - Vocational
18.80 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)

MUS-100  Survey of the Arts
3.40 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 and 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. The class is taught by three instructors, one from each area. (GC)

MUS-100L  Survey of the Arts Performance Attendance Lab
6.00 hrs lab/term
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 Gary Soren Smith Center for the Fine and Performing Arts. (NG)

MUS-101  Introduction to Music-Western Classical Music
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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, musical media, and textures. The subject matter ranges from rondellus to reggae to rock. (GC)

MUS-101L  Introduction to Western Classical Music Performance Attendance Lab
4.00 hrs lab/term
Units: 0.00
Corequisite: MUS-101

This is a concert performance attendance lab component at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. (NG)

MUS-102  Music Appreciation
3.40 hrs lecture, 1.20 hrs lab
Units: 3.00
Corequisite: MUS-102L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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/term
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 Gary Soren Smith Center for the Fine and Performing Arts. (NG)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-103</td>
<td>Fundamentals of Music</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td></td>
<td>This is a basic course for students investigating the study of musical notation, keys, scales, chords, along with other elements of basic musicianship. This course is useful in working with children and youth. (GC)</td>
</tr>
<tr>
<td>MUS-103L</td>
<td>Fundamentals of Music Performance Attendance Lab</td>
<td>0.00</td>
<td>4.00</td>
<td></td>
<td></td>
<td>This is a concert performance attendance lab component that selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. (NG)</td>
</tr>
<tr>
<td>MUS-108</td>
<td>Music of World Cultures</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td></td>
<td>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)</td>
</tr>
<tr>
<td>MUS-109</td>
<td>Song Writing</td>
<td>2.00</td>
<td>1.20</td>
<td></td>
<td></td>
<td>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 notational software, compare the outcomes with standard professional compositional criteria, and record the final edited projects. Repeatable = 1 time (GC)</td>
</tr>
<tr>
<td>MUS-110A</td>
<td>Music Theory and Harmony</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td></td>
<td>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 + MUS MUS SEQ A)</td>
</tr>
<tr>
<td>MUS-110B</td>
<td>Harmony</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td></td>
<td>This course includes the study of diatonic harmony in major keys, major and minor triads and inversions, modulation, non-harmonic tones, and secondary dominants. The course includes writing for the piano using the phrase, period, and two- and three-part song form. This course is the second in the four-semester theory sequence. (GR) (CAN MUS 4 or MUS-110A + MUS-110B = CAN MUS SEQ A)</td>
</tr>
<tr>
<td>MUS-110C</td>
<td>Advanced Harmony</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td></td>
<td>This course is a study of chromatic harmony with particular emphasis on the chronological development of harmonic and contrapuntal techniques from the 16th through the 19th centuries. This course is the third in the four-semester theory sequence. (GR)</td>
</tr>
<tr>
<td>MUS-110D</td>
<td>Advanced Harmony</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td></td>
<td>This course is a study of compositional materials and techniques from the late 19th century to the present. This course is the fourth of a four-semester theory sequence. (GR)</td>
</tr>
<tr>
<td>MUS-111A</td>
<td>Musicanship</td>
<td>1.00</td>
<td>1.20</td>
<td></td>
<td></td>
<td>This course develops facility in sight singing, ear training, and the ability to take musical dictation. (GR)</td>
</tr>
<tr>
<td>MUS-111B</td>
<td>Musicanship</td>
<td>1.00</td>
<td>1.20</td>
<td></td>
<td></td>
<td>This course develops facility in sight singing, ear training, and the ability to take musical dictation. (GR)</td>
</tr>
<tr>
<td>MUS-111C</td>
<td>Advanced Musicianship</td>
<td>1.00</td>
<td>1.20</td>
<td></td>
<td></td>
<td>This course covers sight singing and reading of materials employed in MUS-110C. (GR)</td>
</tr>
<tr>
<td>MUS-111D</td>
<td>Advanced Musicianship</td>
<td>1.00</td>
<td>1.20</td>
<td></td>
<td></td>
<td>This course covers sight singing and reading of materials employed in MUS-110D. (GR)</td>
</tr>
<tr>
<td>MUS-112A</td>
<td>Recording With Pro Tools</td>
<td>3.00</td>
<td>3.30</td>
<td></td>
<td></td>
<td>This course is an introduction to electronic music through lectures and studio experiences with MIDI synthesizers, computer-based sequencing, and tape recording. (GR)</td>
</tr>
</tbody>
</table>
MUS-120L History of Trends in Music Literature Performance Attendance Lab
4.00 hrs lab/term
Units: 0.00
Corequisite: MUS-120A or MUS-120B
This is a concert performance attendance lab component at selected events offered by the Gary Soren Smith Center for Fine and Performing Arts. Repeatable = 3 times (NG)

MUS-112B Pro Tools and MIDI
2.30 hrs lecture, 3.40 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
2.30 hrs lecture, 3.40 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
2.30 hrs lecture, 3.40 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 analogue tape or phono recordings. Artwork will be created using Adobe Photoshop and Discus. Repeatable = 3 times (GC)

MUS-116 Sound Reinforcement and Live Recording
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: MUS-112A
The lecture component covers basic techniques for live concert sound reinforcement, including basic sound system theory/aplications 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
3.40 hrs lecture
Units: 3.00
Corequisite: MUS-120L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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
3.40 hrs lecture, 1.20 hrs lab
Units: 3.00
Corequisite: MUS-120L
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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-120C History of Trends in Music Literature Performance Attendance Lab
4.00 hrs lab/term
Units: 0.00
Corequisite: MUS-120A or MUS-120B
This is a concert performance attendance lab component at selected events offered by the Gary Soren Smith Center for Fine and Performing Arts. Repeatable = 3 times (NG)

MUS-121 The History of Jazz
3.40 hrs lecture, 1.20 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 of the 1950's
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-141, IS-142
Accepted For Credit: CSU and UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the United States. The major figures of the 1950's—Bill Haley, Fats Domino, Elvis Presley, Chuck Barry, and Little Richard—will be studied as examples of rock and roll music as an American popular cultural form during the mid-twentieth century. (GC)

MUS-123 History of Rock and Roll Music
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-142, IS-143
Accepted For Credit: CSU and UC
The development of rock and roll music is studied from the Beatles to Led Zeppelin. Slides, music, and lecture material will analyze the cultural impact of recent rock music. (GC)

MUS-125 Rock Music Since 1970
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-143
Accepted For Credit: ENGL-151B and ENGL-163
Accepted For Credit: CSU and UC
This course looks at the development of popular music and culture since 1970. It will include looks at art rock, disco, new wave, reggae, rap, hip-hop, and related genres. (GR)

MUS-160A Beginning Class Piano
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU and 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
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU and 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
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU and 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
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Corequisite: MUS-160L
Advisory: MUS-160C or equivalent
Accepted For Credit: CSU and 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
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Corequisite: MUS-160L
Advisory: MUS-160D or equivalent
Accepted For Credit: CSU and 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)

MUS-160F  Piano Repertoire
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Corequisite: MUS-160L
Accepted For Credit: CSU and 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)

MUS-160L  Beginning Class Piano Performance Attendance Lab
4.00 hrs lab/term
Units: 0.00
Corequisite: Any one of MUS-160A-F

This is a concert 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)

MUS-161A  Class Guitar
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Accepted For Credit: CSU and UC

This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161B  Class Guitar
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161B.
Accepted For Credit: CSU and UC

This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161C  Class Guitar
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161C.
Accepted For Credit: CSU and UC

This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161D  Class Guitar
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161D.
Accepted For Credit: CSU and UC

This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161E  Class Guitar
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161E.
Accepted For Credit: CSU and UC

This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161F  Class Guitar
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161F.
Accepted For Credit: CSU and UC

This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-162A  Class Voice-Beginning
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Corequisite: MUS-162L
Advisory: MUS-160A
Accepted For Credit: CSU and UC

This course will offer group instruction in vocal production with emphasis on solo literature. Many common vocal problems will be identified and analyzed through classroom participation and discussion utilizing vocal literature and art songs. (GC)

MUS-162B  Class Voice-Beginning
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Prerequisite: MUS-162A
Corequisite: MUS-162L
Advisory: MUS-160A
Accepted For Credit: CSU and UC

This course will offer group instruction in vocal production with emphasis on solo literature. Many common vocal problems will be identified and analyzed through classroom participation and discussion utilizing vocal literature and art songs. (GC)

MUS-162C  Class Voice-Intermediate
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Prerequisite: MUS-162B
Corequisite: MUS-166A or MUS-166B; MUS-162L; MUS-166L.
Accepted For Credit: CSU and UC

In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students will practice correct tone production, diction, stage presence, and style interpretation. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. (GC)
MUS-162D  Class Voice-Intermediate  1.20 hrs lecture, 3.40 hrs lab Units: 2.00
Prerequisite: MUS-162C
Corequisite: MUS-166B, MUS-162L
Accepted For Credit: CSU and UC
In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students practice correct tone production, diction, stage presence, and style interpretation. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. (GC)

MUS-162E  Vocal Repertoire  1.20 hrs lecture, 3.40 hrs lab Units: 2.00
Prerequisite: MUS-162D
Corequisite: MUS-166C, MUS-166L, MUS-162L
Accepted For Credit: CSU and UC
In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students practice correct tone production, diction, and stage presence. Style interpretation will be stressed in each lesson. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. (GC)

MUS-162F  Vocal Repertoire  1.20 hrs lecture, 3.40 hrs lab Units: 2.00
Prerequisite: MUS-162E
Corequisite: MUS-166D, MUS-166L, MUS-162L
Accepted For Credit: CSU and UC
In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students practice correct tone production, diction, and stage presence. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. (GC)

MUS-162L  Beginning Class Voice Performance Attendance Lab  4.00 hrs lab/term
Units: 0.00
Corequisite: Any one of MUS-162A-F
Attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Not applicable to associate degree. Repeatable = 5 times (NG)

MUS-163A  Woodwind Instruments (Flute, Saxophone, Clarinet, Oboe, Bassoon)  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-woodwind instruments. MUS-163A is open to all students. (GC)

MUS-163B  Woodwind Instruments (Flute, Saxophone, Clarinet, Oboe, Bassoon)  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-163A or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-163C  Woodwind Instruments (Flute, Saxophone, Clarinet, Oboe, Bassoon)  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-163B or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-163D  Woodwind Instruments (Flute, Saxophone, Clarinet, Oboe, Bassoon)  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-163C or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-164A  Brass Instruments (Horn, Trumpet, Trombone, Tuba)  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-brass instruments. MUS-164A is open to all students. No experience is necessary. (GC)

MUS-164B  Brass Instruments (Horn, Trumpet, Trombone, Tuba)  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-164A or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-164C  Brass Instruments (Horn, Trumpet, Trombone, Tuba)  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-164B or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-164D  Brass Instruments (Horn, Trumpet, Trombone, Tuba)  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-164C or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-165A  Percussion Instruments  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Accepted For Credit: CSU and 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  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-165A or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-165C  Percussion Instruments  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-165B or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-165D  Percussion Instruments  1.20 hrs lecture, 2.30 hrs lab Units: 1.00
Advisory: MUS-165C or equivalent
Accepted For Credit: CSU and UC
This course involves class instruction on all orchestral-percussion instruments. (GC)
MUS-169B Blues/Rock Guitar
1.20 hrs lecture, 1.20 hrs lab
Units: 1.00
Corequisite: MUS-166L
Accepted For Credit: CSU and 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-166A Applied Music
1.20 hrs lecture, 1.20 hrs lab
Units: 1.00
Corequisite: MUS-166L, MUS-162C
Accepted For Credit: CSU and 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 Blues/Rock Guitar
1.20 hrs lecture, 1.20 hrs lab
Units: 1.00
Corequisite: MUS-166L
Accepted For Credit: CSU and 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
1.20 hrs lecture, 1.20 hrs lab
Units: 1.00
Corequisite: MUS-166L
Accepted For Credit: CSU and 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
1.20 hrs lecture, 1.20 hrs lab
Units: 1.00
Corequisite: MUS-166L
Accepted For Credit: CSU and 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/term
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 Gary Soren Smith Center for the Fine and Performing Art. Repeatable = 3 times (NG)

MUS-169A Jazz Guitar
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Prerequisite: Some playing ability required
Accepted For Credit: CSU and 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
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Prerequisite: Previous playing experience
Accepted For Credit: CSU and 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 2
1.20 hrs lecture, 2.30 hrs lab
Units: 1.00
Advisory: MUS-169B
Accepted For Credit: CSU and 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
3.00 hrs lecture, 1.80 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 for the basic training for Music for Minors which provides a minimum of 1 1/2 hour weekly instruction in elementary classrooms for at least one school year. Repeatable = 1 time (GR)

MUS-350 Community Band
3.40 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU and UC
Study and performance of band and chamber music repertoire. Repeatable = 3 times (GR)

MUS-351 Performance Ensembles
3.40 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 1.00
Prerequisite: Ability to read music
Advisory: MUS-103, MUS-110 or equivalent
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU and UC
This course involves class instruction on all string instruments. Repeatable = 3 times (GC)

MUS-354B String Techniques-Ohlone Chamber Orchestra
3.40 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU and UC
This course involves class instruction on all string instruments. Repeatable = 3 times (GC)

MUS-354C String Techniques-Ohlone Chamber Orchestra
3.40 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU and UC
This course involves class instruction on all string instruments. Repeatable = 3 times (GC)
MUS-354D String Techniques-Ohlone Chamber Orchestra
3.40 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU and UC
This course involves class instruction on all string instruments. Repeatable = 3 times (GC)

MUS-355 College Chorus
3.40 hrs lab
Units: 1.00
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 1.00
Prerequisite: Audition
Advisory: Ability to read music
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 1.00
Accepted For Credit: CSU and 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-359 Madrigals
1.20 hrs lecture; 2.30 hrs lab
Units: 1.00
Accepted For Credit: CSU and 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-360 Chamber Orchestra
3.40 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU and UC
This course involves class instruction on all string instruments. Repeatable = 3 times (GC)

MUS-361 Symphony Band
3.40 hrs lab
Units: 0.50
Prerequisite: Ability to read music
Accepted For Credit: CSU and 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 parts. Attendance at scheduled rehearsals and performances is required. Repeatable = 3 times (GC)

MUS-364 Mixed Wind Ensemble
3.40 hrs lab
Units: 0.50
Prerequisite: Ability to read music
Accepted For Credit: CSU and 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-367 Community Orchestra
3.40 hrs lab
Units: 1.00
Prerequisite: Tutorial and casting role in current musical
Accepted For Credit: CSU and UC
This course is an advanced course in the theory and performance of large scale choral literature. Emphasis will be placed on major composer repertoire, scored for an ensemble including multiple parts. Attendance at scheduled rehearsals and performances is required. Repeatable = 3 times (GC)

MUS-368 Musical Theatre Workshop I (Principals)
3.40 hrs lab
Units: 1.00
Prerequisite: Audition and casting role in current musical
Accepted For Credit: CSU and 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 the movement and music for the leading members of the cast. Repeatable = 3 times (GC)

MUS-369 Musical Theatre Workshop II (Chorus)
3.40 hrs lab
Units: 1.00
Prerequisite: Audition and casting role in current musical
Accepted For Credit: CSU and 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 the movement and music for the leading members of the chorus. Repeatable = 3 times (GC)

MUS-370 Musical Theatre Workshop III (Instrumental)
3.40 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU and 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 “pit musician.” Repeatable = 3 times (GC)

MUS-371 Madrigals
3.40 hrs lab
Units: 1.00
Prerequisite: Audition only
Advisory: Ability to sight read music
Accepted For Credit: CSU and 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 and Exercise Sciences

NUR-101 Nursing Theory and Communication
3.00 hrs lecture, 6.00 hrs lab
Units: 4.50
Prerequisite: Admission to the program; BIOL-103A, BIOL-103B, BIOL-106
Advisory: CFS-109, PSY-108 must be completed by end of second semester in Nursing Program
Accepted For Credit: CSU

NUR-101 is the first course in the nursing sequence, taught in 9 weeks. The weekly contact hours are 5 hours lecture and 12 hours lab. Students are introduced to the theory and practice of nursing based on the adaptation model. The health illness continuum is explored within the context of the health care delivery system. Students begin the socialization process into the role of the registered nurse. Special emphasis is placed on the nurse as communicator, educator, 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 will focus 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. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of fundamental nursing skills in a multimedia setting is included. Clinical application of both theory and skills occurs in the hospital and community settings. Repeatable = 1 time (CR)

NUR-102 Assessment and Surgical I
5.70 hrs lecture, 13.50 hrs lab
Units: 4.50
Prerequisite: Completion of NUR-101; BIOL-103A, BIOL-103B, BIOL-106
Advisory: CFS-109, PSY-108 must be completed by end of second semester in the Nursing Program.
Accepted For Credit: CSU

NUR-102 is the second course in the nursing sequence, taught in 9 weeks. The focus of this course is assessment of patients’ physical and psychological adaptation to health and illness across the adult life span. Emphasis is on critical thinking and nursing process as it relates to patient care in the hospital and community setting. Students are introduced to the nursing role with the pre-operative, intra-operative, and post-operative patient. Special problems of nursing care related to the patient confronted by the prolonged immobility are addressed. Pharmacology is introduced 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 variables in physical and psychosocial assessments of an ethnically diverse population as they relate to pain, nutrition, and spirituality. Discussion also focuses on value systems. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills is in a multimedia setting. Clinical application of both theory and skills occurs in the hospital and community setting. Repeatable = 1 time (CR)

NUR-103 Community I and Medical Surgical II
5.70 hrs lecture, 18.10 hrs lab
Units: 5.00
Prerequisite: Admission to Nursing Program, Completion of NUR-102
Corequisite: CFS-109, PSY-108* *Completion of/or concurrent enrollment. Must be completed prior to entering third semester in Nursing Program
Accepted For Credit: CSU

NUR-103 is the third course in the nursing sequence taught in 9 weeks. The focus of this course is advanced concepts in nursing care of the surgical patient experiencing physical and psychological changes in body image related to wounds, amputation, genitourinary, respiratory, and gastrointestinal surgeries. The content also includes concepts of oxygenation, gas exchange, and acid base. Students will be introduced to the community practice paradigm focusing on the ambulatory care delivery system. Students will explore the nurse’s role in a managed care environment. This course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to change in body image and/or loss of body function, and change in nutritional practices. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills in a multimedia setting is included. Clinical application of both theory and skills occurs in the hospital and community setting. Repeatable = 1 time (CR)

NUR-104 Maternal-Child Care
5.70 hrs lecture, 18.10 hrs lab
Units: 5.00
Prerequisite: Completion of NUR-103
Corequisite: CFS-109, PSY-108 must be completed prior to entering third semester in Nursing Program.
Accepted For Credit: CSU

NUR-104 is the fourth course in the nursing sequence taught in 9 weeks. 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 member of the profession are explored in meeting the needs of patients in labor and delivery, post-partum, and 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 will assess patients, identify nursing diagnosis, implement and evaluate nursing interventions to promote adaptive responses in pediatric and obstetric patients experiencing alterations in physiologic and psychosocial modes. The course will focus on assessing, developing, implementing and evaluating a plan of care that respects the individual’s cultural behaviors related to childbearing practices 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 in an outpatient clinical setting. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills in a multi-media setting is included. Clinical application of both theory and skills occurs in the hospital and community setting. Repeatable = 1 time (CR)
NUR-105 Mental Health and Gerontologic Care
5.70 hrs lecture, 18.10 hrs lab
Units: 5.00
Prerequisite: NUR-104, CFS-109, PSY-108
Accepted For Credit: CSU
NUR-105 is the fifth course in the nursing sequence taught in 9 weeks. The focus is on comprehensive nursing interventions to promote adaptive communication across the life span. The nursing roles of provider and manager of care, communicator, teacher, and member of the profession are explored in meeting the needs of patients in community-based psychiatric and geriatric settings. Lecture classes are augmented by discussion and computer-assisted clinical situations. Nursing skills will focus on communication and critical thinking through the use of video simulations of clinical situations and role playing. The clinical setting will provide a variety of interactive and practice situations with geriatric and psychiatric patients. The students' knowledge of community-based nursing will be expanded upon through participation in a community-based clinic. This course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural beliefs related to differences in verbal and nonverbal behavior among cultures, cultural and ethnic practices related to the care of the mentally ill, and sources of stress among diverse ethnic groups that may lead to violence, substance abuse, and mental illness. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills in a multimedia setting is included. Clinical application of both theory and skills occurs in the hospital and community setting. Repeatable = 1 time (GR)

NUR-106 Community II and Medical Surgical III
5.70 hrs lecture, 18.10 hrs lab
Units: 5.00
Prerequisite: Completion of NUR-105
Accepted For Credit: CSU
NUR-106 is the sixth course in the nursing sequence taught in 9 weeks. The focus is on the nursing care of patients with alterations in endocrine protective, hepatic (pancreatic) function, and bleeding disorders. Content includes pathophysiology, nursing assessment, nursing implications of diagnostic tests, and related pharmacology. Students will utilize the nursing process to promote adaptive response in patients experiencing complex physiologic and psychosocial alteration in the endocrine/protective and hepatic (pancreatic) systems. A special emphasis is placed on the nurse as communicator, educator, and critical thinker. Issues surrounding chronicity and nursing care of high-risk populations will be explored using the case management model. Community content will encompass the analysis and implementation of the students' community assessment. This course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural beliefs related to cultural practices among diverse populations experiencing grief and the dying process; the impact of disease transmission among various cultural groups; and expression and response to pain among culturally diverse populations. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills in a multimedia setting is included. Clinical application of both theory and skills occurs in the hospital and community settings. Repeatable = 1 time (GR)

NUR-107 Medical-Surgical IV and Rehabilitation
5.70 hrs lecture, 18.10 hrs lab
Units: 5.00
Prerequisite: Completion of NUR-106
Accepted For Credit: CSU
NUR-107 is the seventh course in the nursing sequence taught in 9 weeks. The focus of this course is on the nursing care issues related to the management of patients with alterations of circulation, respiratory, elimination, (renal) and neuro/sensation. Critical thinking will be promoted by assisting students to interrelate pathophysiology, nursing assessment, implications of diagnostic tests, pharmacology and medical treatments. Students will assess, identify nursing diagnoses, and implement nursing interventions to promote adaptive responses in patients experiencing complex physiologic and psychosocial alterations of the cardiovascular, respiratory, renal, and neurological systems. The community focus will include health promotion, illness prevention, and rehabilitation. 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 physiological problems related to the cardiac, renal, and neurological systems. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of related skills in a multimedia setting is included. Clinical application of both theory and skills occurs in the acute care hospitals and home health and community rehab settings. Repeatable = 1 time (GR)

NUR-108 Clinical Preceptorship
1.20 hrs lecture, 8.50 hrs lab
Units: 3.50
Prerequisite: Completion of NUR-107
Accepted For Credit: CSU
NUR-108 is the eighth course in the nursing sequence taught in 5 weeks. Contact hours are 18 hours lecture completed in the first week and 128 hours lab completed in subsequent weeks. 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 in an acute care setting. The registered nurse preceptor directly supervises students under the guidance of the nursing faculty liaison. Professional development skills and current issues in nursing are discussed. This course will focus on managing groups of patients with respect for the individual’s cultural beliefs related to health care practices. Students will practice delegation and evaluation of health team members from a variety of cultural backgrounds. Detailed objectives are written for each class and correlate with required preparation. Clinical application of both theory and skills occurs in the hospital settings. Repeatable = 1 time (GR)

NUR-109 Community Synthesis
5.40 hrs lab
Units: 1.50
Prerequisite: Completion of NUR-107
Accepted For Credit: CSU
NUR-109 is the ninth course in the nursing sequence taught in 9 weeks. The contact hours are 78 lab hours. The focus of this course is on nursing care role in a community context. Emphasis is placed on nursing interventions across the life span in a managed care environment. This course will focus on nursing care of a multi-diverse patient population utilizing community-based care settings. Detailed objectives are written for the clinical experience and correlate with required preparation. Clinical application of both theory and skills occurs in the community setting. Repeatable = 1 time (GR)
NUR-115P Maternal-Child Review
5.70 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)

NUR-116V Clinical Nursing Renewal
1.80 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-117 Critical Thinking Development-Intensive
1.80 hrs lab
Units: 0.50
Prerequisite: 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-118 Leadership Skills in Nursing
3.40 hrs lab
Units: 1.00

This course introduces the concept of leadership through participation in the Nursing Students of Ohlone College Club (NSOC) in conjunction with the California Nursing Student’s Association (CNSA) and the National Student Nursing Association (NSNA). Students have the opportunity to participate in group work, leadership roles, education and mentoring, community service, and other activities that broaden their vision of the nursing profession and promote leadership. Not applicable to associate degree. Repeatable = 3 times (CR)

NUR-119 Strategies for the RN Student
2.30 hrs lecture
Units: 2.00

The course will provide an introduction to the role of the registered nurse. Students will acquire critical thinking, time management, finance management, study and life skills necessary for RN student success. Repeatable = 2 times (GC)

NUR-365 Supervised Tutoring
11.80 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)

PERSONAL DEVELOPMENT
Division: Counseling

PD-100 Transition to College
1.20 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. This half-unit course will be offered as a short-term course. Repeatable = 2 times (CR)

PD-101 College Survival Techniques
0.60 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 half-unit course will be offered as a short-term course. Repeatable = 2 times (CR)

PD-111 Strategies for College Success
1.20 hrs lecture
Units: 1.00
Accepted For Credit: CSU

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
2.30 hrs lecture
Units: 2.00
Accepted For Credit: CSU

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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD-114</td>
<td>Introduction to Paraprofessional Counseling</td>
<td>2.30 hrs lecture, 3.40 hrs lab</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>Cross-referenced Course: PSY-114</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD-120</td>
<td>Student Government Workshop</td>
<td>0.60 hrs lecture, 1.80 hrs lab</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD-149</td>
<td>Career Testing Workshop</td>
<td>0.60 hrs lecture</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD-150</td>
<td>Career Planning</td>
<td>2.30 hrs lecture</td>
<td>2.00</td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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 = 2 times (GC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD-160</td>
<td>Student Leadership in Higher Education</td>
<td>1.80 hrs lecture, 2.30 hrs lab</td>
<td>2.00</td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD-170</td>
<td>Welcome Day: The Freshman Connection</td>
<td>0.60 hrs lecture</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD-365</td>
<td>Supervised Tutoring</td>
<td>6.80 hrs lab</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Instructor or counselor referral</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PHILOSOPHY

Division: Language Arts, Library, and Social Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL-101</td>
<td>Ancient Philosophy</td>
<td>3.40 hrs lecture</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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 the Stoics. (GC) (CAN PHIL 4 or PHIL-101 + PHIL-102 = CAN PHIL SEQ A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL-102</td>
<td>Modern Philosophy</td>
<td>3.40 hrs lecture</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course is an introduction to the history of modern philosophy. Thinkers studied include Descartes, Hobbes, Locke, Berkeley, Hume, Kant, and Hegel. (GC) (CAN PHIL 10 or PHIL-101 + PHIL-102 = CAN PHIL SEQ A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL-104</td>
<td>Logic</td>
<td>3.40 hrs lecture</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-101A</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL-106</td>
<td>Ethics</td>
<td>3.40 hrs lecture</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU and UC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course examines the major ethical systems and ideas with application to modern moral issues. Concepts studied include free will, moral responsibility, and justice. (GC) (CAN PHIL 4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL-107</td>
<td>Practical Reasoning</td>
<td>3.40 hrs lecture</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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 actors support or detract from the reasoning process. (GC)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PE-195A1  Understanding the Old Testament
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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
3.40 hrs lecture
Units: 3.00
Accepted For Credit: CSU and 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)

---

PHYSICAL EDUCATION

Division: Health and Exercise Sciences

PE-195A2  PE Work Experience Education
9.40 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
14.10 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
18.80 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-220  Women’s Volleyball
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance. Enrollment in 9 additional units per Student Education Plan. Accepted For Credit: CSU and 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)

PE-222  Women’s Soccer
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance. Enrollment in 9 additional units per Student Education Plan. Accepted For Credit: CSU and 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)

PE-223  Men’s Soccer
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance. Enrollment in 9 additional units per Student Education Plan. Accepted For Credit: CSU and UC
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. (GC)
PE-224 Women’s Waterpolo
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance. Enrollment in 9 additional units per Student Education Plan.
Accepted For Credit: CSU and 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)

PE-225 Men’s Waterpolo
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance. Enrollment in 9 additional units per Student Education Plan.
Accepted For Credit: CSU and 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)

PE-226 Women’s Basketball
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan.
Accepted For Credit: CSU and 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)

PE-227 Men’s Basketball
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan.
Accepted For Credit: CSU and 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)

PE-228 Women’s Swimming
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan.
Accepted For Credit: CSU and 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)

PE-229 Men’s Swimming
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan.
Accepted For Credit: CSU and 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)

PE-230 Women’s Softball
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan.
Accepted For Credit: CSU and 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)

PE-231 Men’s Baseball
11.80 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance, enrollment in 9 additional units per Student Education Plan.
Accepted For Credit: CSU and 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)

PE-240 Theory of Physical Education, Fitness, And Sport
3.40 hrs lecture
Units: 3.00
Accepted For Credit: CSU

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)

PE-241 College Success for Athletes
2.30 hrs lecture
Units: 2.00
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)

PE-242 Sociology of Sport
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: SOC-142
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)

PE-243 Sports Marketing
3.40 hrs lecture
Units: 3.00
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)

PE-244 Sports Management
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: BA-144
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)

PE-250 Fitness Camp
0.60 hrs lecture, 2.30 hrs lab
Units: 1.00
Accepted For Credit: CSU and 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)
This course will also prepare students for the Personal Trainer and legal issues related to fitness and strength training. This course will also cover strategies and techniques for preventing and treating athletic injuries. The course will also include a discussion of the use of therapeutic modalities and emergency first aid procedures as applied to athletic injuries. (GR)

PE-262 Theory of Volleyball
2.30 hrs lecture, 1.20 hrs lab
Units: 2.00
Accepted For Credit: CSU and 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)

PE-264 Coaching Soccer
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Advisory: Medical check within last year recommended
Accepted For Credit: CSU
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. (GC)

PE-265 Theory of Basketball
2.30 hrs lecture, 1.20 hrs lab
Units: 2.00
Accepted For Credit: CSU and 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. (GC)

PE-266 Coaching Softball
2.30 hrs lecture, 1.20 hrs lab
Units: 2.00
Advisory: Medical check within last year
Accepted For Credit: CSU and 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. (GC)

PE-267 Coaching Baseball
2.30 hrs lecture, 1.20 hrs lab
Units: 2.00
Accepted For Credit: CSU and 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. (GC)

PE-268 Golf Instruction and Theory
1.20 hrs lecture, 2.30 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 and etiquette, mental preparation, and the skills of the swing, putt, chip, and pitch. Repeatable = 1 time (GC)

PE-300A2/A3 Basketball
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within last year
Accepted For Credit: CSU and UC
This course provides the student with an under-standing of the fundamentals, rules, strategies and skills of basketball. Game situations will also be covered. (GC)
The 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/A3 Volleyball**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within the last year
- Accepted For Credit: CSU and UC

This course is designed for students wishing to learn the fundamentals of volleyball. (GC)

**PE-301B2/B3 Intermediate Volleyball**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within the last year; PE-301A2 or A3 or equivalent
- Accepted For Credit: CSU and UC

This course is designed for students wishing to learn the intermediate strategies and skills of volleyball. (GC)

**PE-301C2/C3 Advanced Volleyball**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within the last year; PE-301A2, PE-301B3, or equivalent
- Accepted For Credit: CSU and UC

This 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/A3 Flag Football**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within last year
- Accepted For Credit: CSU and UC

This 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-303A2/A3 Soccer**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within last year
- Accepted For Credit: CSU and UC

This course will instruct the student in the basic techniques of soccer. Basic skills, rules and basic strategies will be covered. (GC)

**PE-304A2/A3 Indoor Soccer**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within last year
- Accepted For Credit: CSU and UC

This course will instruct the student in the basic fundamentals and strategies used in indoor soccer. (GC)

**PE-305C2/C3 Advanced Softball**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within the last year
- Accepted For Credit: CSU and UC

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. A certain amount of physical fitness will also be obtained through the practice and participation in class. (GC)

**PE-306A2/A3 Slow Pitch Softball**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within last year
- Accepted For Credit: CSU and UC

This course is designed to provide softball skills and basic strategies at the beginning level. (GC)

**PE-306B2/B3 Intermediate Slow-Pitch Softball**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within the last year PE-306A2 or A3 or equivalent
- Accepted For Credit: CSU and UC

This course is designed to further the skills and understanding of softball for each participant at the intermediate level. (GC)

**PE-307C2/C3 Advanced Baseball**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within last year. Previous high school or college experience.
- Accepted For Credit: CSU and UC

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)

**PE-308A2/A3 Wrestling**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within the last year
- Accepted For Credit: CSU and UC

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)

**PE-315A2 Beginning Bowling**

- 2.30 hrs lab
- Units: 0.50
- Advisory: Medical check within the last year
- Accepted For Credit: CSU and UC

This course provides the student an understanding of the fundamentals of beginning bowling. (GC)

**PE-315B2 Intermediate Bowling**

- 2.30 hrs lab
- Units: 0.50
- Advisory: Medical check within last year
- Accepted For Credit: CSU and UC

This course is designed for students who wish to learn advanced bowling techniques. (GC)

**PE-320A2/A3 Basic Golf Skills**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within last year
- Accepted For Credit: CSU and 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/B3 Intermediate Golf Skills**

- 2.30/3.40 hrs lab
- Units: 0.50/1.00
- Advisory: Medical check within last year PE-320A2 or A3 or equivalent
- Accepted For Credit: CSU and 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)
This activity course is designed to increase flexibility, strength, and cardiovascular endurance of the students through the practical application of circuit training. (CC)
PE-353A2/A3  Water Polo
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and UC
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/B3  Intermediate Water Polo
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year PE-353A2 or A3 or equivalent
Accepted For Credit: CSU and UC
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-355A2/A3/A4  Aquatic Stroke Technique
2.30/3.40 hrs lab
Units: 0.50/1.00/2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and UC
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/A3  Water Exercise
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and UC
This course is designed to provide students with a fitness program through various water exercise and swimming workouts. Repeatable = 3 times (GC)

PE-360A2/A3  Badminton
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within last year
Accepted For Credit: CSU and UC
This course is designed to give the student an understanding of the basic fundamentals of badminton. (GC)

PE-360B2/B3  Intermediate Badminton
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within last year PE-360A2, PE-360A3, or equivalent
Accepted For Credit: CSU and UC
This course is designed to further develop the techniques and skill level of the badminton player. (GC)

PE-362A2/A3  Tennis
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and UC
This PE course is designed to teach the basic fundamentals, rules and strategies pertaining to the game of tennis. (GC)

PE-362B2/B3  Intermediate Tennis
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year PE-362A2, PE-362A3, or equivalent
Accepted For Credit: CSU and UC
This PE course is designed for students to learn the fundamentals and intermediate skills of tennis. Strategy sessions in singles as well as doubles play will also be covered. (GC)

PE-362C2/C3  Advanced Tennis
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year; PE-362B2, PE-362C3, or equivalent
Accepted For Credit: CSU and UC
This PE course is designed for students to learn the advanced skills of tennis including strategies, rules, and tournament play. (GC)

PE-365A2/A3  Chi Walking/Running
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within last year
Accepted For Credit: CSU and 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/A3  Dance Aerobics
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and 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/A3  Step-Aerobics
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and UC
Step Aerobics I is an introduction to choreography utilizing the step as a means for improving cardiovascular 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/A3  Hi-Low Aerobics
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and 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/A3  Total Body Conditioning
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and 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-372A2/A3  Conditioning
2.30/3.40 hrs lab
Units: 0.50/1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU and UC
This course is an aerobic type body conditioning class which includes stretching, step workout, abdominal development, and muscle toning exercises. (GC)
PE-394A2/A3 Adaptive Physical Education-Aquatics
2.30/3.40 hrs lab
Units: 0.50/1.00
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU and 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-395A2/A3 Adaptive Physical Education-Striding
2.30/3.40 hrs lab
Units: 0.50/1.00
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU and 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
2.30 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU and UC
This course will allow the student to increase their strength, flexibility, stamina, and concentration through the use of floor exercises. This technique driven class will introduce positions such as the 100’s, roll downs, table tops, and rockers. Repeatable = 3 times (GC)

PHYSICAL THERAPY ASSISTANT
Division: Health and Exercise Sciences

PTA-101 Introduction to Physical Therapy
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: BIOL-103A and BIOL-103B
Accepted For Credit: CSU
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. (CR)
PTA-102 Pathology
3.40 hrs lecture
Units: 3.00
Prerequisite: Admission to the PTA Program; all graded PTA courses must be passed with a grade of C or better.
Accepted For Credit: CSU
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)

PTA-103 Kinesiology I
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: Admission to the PTA program; all graded PTA courses must be completed with a grade of C or better.
Accepted For Credit: CSU
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)

PTA-104 Kinesiology II
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: Admission to the PTA program; PTA-103. All graded PTA courses must be passed with grade of C or better.
Accepted For Credit: CSU
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)

PTA-105A Therapeutic Exercise I
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: Admission into PTA program, PTA-102, PTA-103. All graded PTA courses must be completed with a grade of C or better.
Corequisite: PTA-104, PTA-106
Accepted For Credit: CSU
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)

PTA-105B Therapeutic Exercise II
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Prerequisite: Admission into the PTA program; PTA-105A. All graded PTA courses must be passed with a grade of C or better.
Corequisite: PTA-108
Accepted For Credit: CSU
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)

PTA-106 Orthopedics
2.30 hrs lecture
Units: 2.00
Prerequisite: Admission into the PTA program, PTA-102, PTA-103. All graded PTA courses must be passed with a grade of C or better.
Accepted For Credit: CSU
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)

PTA-107A Clinical Practicum I
3.40 hrs lab
Units: 1.00
Prerequisite: Admission to the PTA Program; PTA-102A, PTA-103, and PTA-105A. All graded PTA courses must be passed with a grade of C or better.
Corequisite: PTA-104, PTA-106
Accepted For Credit: CSU
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)

PTA-107B Clinical Practicum II
6.80 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
6.80 hrs lab
Units: 2.00
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
1.80 hrs lecture, 1.80 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), and various light spectrum modalities (Ultra-violet and Infrared); and electromyography for biofeedback. (GR)

PTA-109 Physical Therapy Through the Life Span
1.80 hrs lecture, 1.80 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
1.80 hrs lecture, 1.80 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
1.80 hrs lecture, 1.80 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
13.50 hrs lab
Units: 4.00
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
1.20 hrs lecture, 3.40 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
3.00 hrs lecture, 1.80 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 Professionals where a solid understanding is required for success in subsequent courses. Examples of such professions included PTA, athletic training, personal training, dance therapy, acupressure, and massage therapy. (GR)

PTA-140 PTA Licensure Preparation
3.40 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
3.40 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
11.80 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
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163, MATH-151
Accepted For Credit: CSU and 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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: MATH-181
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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
1.20 hrs lecture
Units: 1.00
Prerequisite: MATH-101A or equivalent
Corequisite: PHYS-120
Accepted For Credit: CSU and UC
This is an introduction to basic concepts of Calculus with applications to Physics Mechanics. (GR)

PHYS-121 Introduction to Physics II
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: PHYS-120
Accepted For Credit: CSU and 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
1.20 hrs lecture
Units: 1.00
Prerequisite: MATH-101A and PHYS-120 or equivalent
Accepted For Credit: CSU and UC
This is an introduction to Calculus as applied to problems of electromagnetism. (GR)

PHYS-131D Review of Physics Concepts
1.20 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. Not applicable to associate degree. Repeatable = 3 times (CR)

PHYS-140 Mechanics
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: MATH-101A with grade of C or better
Corequisite: MATH-101B
Accepted For Credit: CSU and 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) (CAN PHYS 8 or PHYS-140 + PHYS-141 + PHYS-142 = CAN PHYS SEQ B)

PHYS-141 Electricity and Magnetism
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: PHYS-140
Corequisite: MATH-101C
Accepted For Credit: CSU and UC
This course is a study of electric and magnetic fields, simple DC and AC circuits, and electromagnetic waves. (GR) (CAN PHYS 12 or PHYS-140 + PHYS-141 + PHYS-142 = CAN PHYS SEQ B)

PHYS-142 Optics, Heat, and Modern Physics
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: PHYS-140
Corequisite: MATH-101C
Advisory: PHYS-141
Accepted For Credit: CSU and 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 postulates 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, total 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  
0.60 hrs lecture, 1.80 hrs lab  
Units: 1.00  
Cross-referred Course: CHEM-190, GEOL-190, BIOL-190, ENGL-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  
6.80 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. (NG)

**POLITICAL SCIENCE**

Division: Language Arts, Library, and Social Studies

PSY-101  General Psychology  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and UC  
This course is an introduction to the study of behavior and includes perception, motivation, intelligence, learning, memory, development, adjustment, personality, mental health, and the social and biological bases of behavior. (GC) (CAN PSY 2)

PSY-102  Introduction to Experimental Psychology  
3.40 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU and 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  
3.40 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  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and UC  
This course is a survey of development from conception through late childhood including the study of prenatal, physical, cognitive, moral, personal, social, and language development. This course includes a study of the many issues involved in this developmental period with special emphasis on the contexts in which they occur: family, peers, school, and culture. (GC)

PSY-106  Adolescent Development  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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 development period with special emphasis on the context in which they occur: family, peers, school, and culture. (GC)

PSY-108  A Survey of Human Development  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and 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-110 Psychology of Human Relations  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This is a practical course concerned with the principles of human psychology applied to understanding the self and others. Group and individual experience is provided. (GC)

PSY-112 Social Psychology  
3.40 hrs lecture  
Units: 3.00  
Advisory: PSY-101 and ENGL-101A  
Accepted For Credit: CSU  
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  
2.30 hrs lecture, 3.40 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  
3.40 hrs lecture  
Units: 3.00  
Advisory: PSY-101; eligible for ENGL-101A  
Accepted For Credit: CSU  
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  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU and UC  
This course focuses on the human nervous system and how it functions to affect behavior. Topics include brain structure, specialization of brain functions, neural development and communication, brain-endocrine interactions, neuroplasticity, brain damage, methods of biopsychology, and the brain mechanisms associated with perception, stress, language, motivation, and memory. (GC)

PSY-139 Psychology in the Workplace  
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: BA-139  
Advisory: Eligible for ENGL-151B and ENGL-163  
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)
RE-131  Mortgage Loan Brokering and Lending  
3.40 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
This course introduces students to the aspects of mortgage brokering operations including office setup, loan processing, lending regulations, types of loans, A to D paper, loan submission, quality control, FICO credit scoring, loan packaging, shipping, and mortgage math. Repeatable = 2 times (GC)

RE-145  Escrow Procedures  
3.40 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  
3.40 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  
4.70 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  
9.40 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  
14.10 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  
18.80 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 THERAPY
Division: Health and Exercise Sciences

RT-101  Principles of Respiratory Therapy I  
3.40 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, and medical gas therapy and introduction to respiratory pathophysiology. (GR)

RT-101L  Beginning Clinical Practice  
3.40 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  
6.80 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  
1.80 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  
3.40 hrs lecture  
Units: 3.00  
Prerequisite: Admission to the RT program; completion of semester I 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 (GR)

RT-104B  Principles of Respiratory Therapy III  
3.40 hrs lecture  
Units: 3.00  
Prerequisite: Admission to the RT program; completion of semester I 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  
3.40 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  
1.80 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  
6.80 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, chest physical therapy, or hyperinflation therapy, airway management, and beginning artificial ventilation. Repeatable = 1 time (CR)

RT-107  Intermediate Clinical Practice  
13.50 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  
1.20 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 pathophysiological conditions encountered by respiratory therapy practitioners. Repeatable = 1 time (GR)

RT-130A  Advanced Respiratory Therapy I  
3.00 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  
1.80 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  
6.80 hrs lab  
Units: 2.00  
Prerequisite: Admission to the 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  
3.00 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 (CR)

RT-131B  Principles of Mechanical Ventilation II  
3.00 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 (CR)

RT-132  Advanced Laboratory  
3.40 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  
5.40 hrs lab  
Units: 1.50  
Prerequisite: Admission to the RT program; completion of first year of RT program  
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
1.20 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 (GR)

RT-134L Clinical Practicum in Neonatal and Pediatric Respiratory Care
5.40 hrs lab
Units: 1.50
Prerequisite: Admission to the RT program; completion of first two years of the 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
1.80 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
11.80 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
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
0.60 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
1.80 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
1.20 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
1.80 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-145 Cardio-Pulmonary Resuscitation (CPR) Basic Life Support (BLS)
0.60 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
11.80 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)

SOCIOLGY
Division: Language Arts, Library, and Social Studies

SOC-101 Introduction to Sociology
3.40 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU and 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) (CAN SOC 2)

SOC-102 Social Problems of a Diverse Society
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and 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)
SPAN-101B Elementary Spanish
3.40 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU and UC
This course is an introduction to the speaking, reading, and writing of Spanish and includes fundamentals of grammar. It is a continuation of SPAN-101A studies. (GR) (CAN SPAN 2 or SPAN-101A + SPAN-101B = CAN SPAN SEQ A)

SPAN-102B Intermediate Spanish
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: SPAN-101B with grade of C or better or 2 years high school Spanish
Accepted For Credit: CSU and UC
This course is a continuation of SPAN-101B. The course includes a review of grammar, composition, conversation, and reading of short stories in Spanish. It also includes an introduction to the literature of Spanish-speaking countries. (GR) (CAN SPAN 8 or SPAN-102A + SPAN-102B = CAN SPAN SEQ B)

SPAN-102A Intermediate Spanish
5.70 hrs lecture, 1.20 hrs lab
Units: 5.00
Prerequisite: SPAN-101B with grade of C or better or 3 years high school Spanish
Accepted For Credit: CSU and UC
This course is a continuation of SPAN-101B. The course includes a review of grammar, composition, conversation, and reading of short stories in Spanish. It also includes an introduction to the literature of Spanish-speaking countries. (GR) (CAN SPAN 8 or SPAN-102A + SPAN-102B = CAN SPAN SEQ B)

SPAN-121B Beginning Conversational Spanish
3.40 hrs lecture
Units: 3.00
Prerequisite: SPAN-121A with grade of C or better
Accepted For Credit: CSU and UC
This course continues the development of Spanish speaking skills through interesting topics of daily life. Students will experience extensive oral practice of the language with further knowledge of grammar. (GC)

SPAN-121A Beginning Conversational Spanish
3.40 hrs lecture
Units: 3.00
Prerequisite: SPAN-121A with grade of C or better or 2 years high school Spanish
This course continues the development of Spanish speaking skills through interesting topics of daily life. Students will experience extensive oral practice of the language with further knowledge of grammar. (GC)

SPAN-121B Beginning Conversational Spanish
3.40 hrs lecture
Units: 3.00
Prerequisite: SPAN-121A with grade of C or better or 2 years high school Spanish
This course continues the development of Spanish speaking skills through interesting topics of daily life. Students will experience extensive oral practice of the language with further knowledge of grammar. (GC)

SPCH-101 Introduction to Public Speaking
3.40 hrs lecture
Units: 3.00
Advisory: Completion of ENGL-151B or BA-116 with grade of C or better, or eligibility for ENGL-101A
Accepted For Credit: CSU and UC
Practice public speaking, including techniques of organization and research methodology. (GR) (CAN SPCH 4)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture</th>
<th>Lab</th>
<th>Prerequisite</th>
<th>Acceptance</th>
<th>Advisory</th>
<th>Repeatable</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-102</td>
<td>Critical Thinking/Group Decision Making</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td>Completion of ENGL-101A and SPCH-101 with grade of C or better</td>
<td>CSU, UC</td>
<td>Completion of ENGL-101A or SPCH-101 with grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-103</td>
<td>Interpersonal Communication</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td>Eligibility for ENGL-101A</td>
<td>CSU, UC</td>
<td>Eligibility for ENGL-101A</td>
<td></td>
</tr>
<tr>
<td>SPCH-104</td>
<td>Critical Thinking/Persuasion</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td>Completion of ENGL-101A or SPCH-101 with grade of C or better</td>
<td>CSU, UC</td>
<td>Completion of ENGL-101A or SPCH-101 with grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-105</td>
<td>Intercultural Communication</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td>CSU, UC</td>
<td>Eligible for ENGL-101A</td>
<td></td>
</tr>
<tr>
<td>SPCH-106</td>
<td>Critical Thinking/Argumentation and Debate</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td>ENGL-101A or SPCH-101 with a grade of C or better</td>
<td>CSU, UC</td>
<td>ENGL-101A or SPCH-101 with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-110A1</td>
<td>Forensics Workshop</td>
<td>1.00</td>
<td>0.60</td>
<td>1.80</td>
<td>Completions of ENGL-101A or grade of C or better</td>
<td>CSU</td>
<td>Completion of ENGL-101A or SPCH-101 with grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-110A2</td>
<td>Forensics Workshop</td>
<td>2.00</td>
<td>1.20</td>
<td>3.40</td>
<td>ENGL-101A or SPCH-101 with grade of C or better</td>
<td>CSU</td>
<td>Completion of ENGL-101A or SPCH-101 with grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-110A3</td>
<td>Forensics Workshop</td>
<td>3.00</td>
<td>1.80</td>
<td>4.50</td>
<td>ENGL-101A or grade of C or better</td>
<td>CSU</td>
<td>Completion of ENGL-101A or SPCH-101 with grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-111</td>
<td>Career Communication</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td>Eligibility for ENGL-101A</td>
<td>CSU</td>
<td>Eligibility for ENGL-101A</td>
<td></td>
</tr>
<tr>
<td>SPCH-112A1</td>
<td>Argumentation and Debate Workshop</td>
<td>1.00</td>
<td>0.60</td>
<td>1.80</td>
<td>ENGL-101A or SPCH-101 with grade of C or better</td>
<td>CSU</td>
<td>ENGL-101A or SPCH-101 with grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-112A2</td>
<td>Argumentation and Debate Workshop</td>
<td>2.00</td>
<td>1.20</td>
<td>3.40</td>
<td>ENGL-101A or SPCH-101 with grade of C or better</td>
<td>CSU</td>
<td>ENGL-101A or SPCH-101 with grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-112A3</td>
<td>Argumentation and Debate Workshop</td>
<td>3.00</td>
<td>1.80</td>
<td>4.50</td>
<td>ENGL-101A or SPCH-101 with grade of C or better</td>
<td>CSU</td>
<td>ENGL-101A or SPCH-101 with grade of C or better</td>
<td></td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Family Communication</td>
<td>3.00</td>
<td>3.40</td>
<td></td>
<td>Eligibility for ENGL-101A</td>
<td>CSU, UC</td>
<td>Eligibility for ENGL-101A</td>
<td></td>
</tr>
</tbody>
</table>

The content covers various courses focusing on decision making, interpersonal communication, critical thinking, and forensics, among others, with details on prerequisites, credits, and course descriptions.
SPCH-190B  Speech Communication Lab Consultant
3.40 hrs lecture, 6.80 hrs lab
Units: 3.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU

SPCH-190C  Speech Communication Lab Consultant
1.20 hrs lecture, 6.80 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. (CC)

THEATRE AND DANCE

Division: Fine Arts, Business, and Broadcasting

TD-100  Survey of the Arts
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: ART-100, IS-100, MUS-100
Corequisite: TD-100
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU and 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. The class is taught by three instructors, one from each area. (GC)

TD-100L  Survey of the Arts Performance Attendance Lab
6.00 hrs lab/term
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)
Performing Arts. Repeatable = 1 time (NG)

offered by the Gary Soren Smith Center for the Fine and performing arts classes requiring attendance at selected events. This is a performance attendance lab component for fine and performing arts classes requiring attendance at selected Bay Area theatres at students’ expense. Repeatable = 2 times (GC) (CAN DRAM 18)

TD-106 History of Television Broadcasting
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: BRDC-179
Advisory: ENGL-151 and ENGL-163
Accepted For Credit: CSU

This course presents a historical overview of the emergence of television as a major cultural phenomenon in the U.S. The course will look at television’s visionaries such as Zwarkin, Baird, and Farnsworth. It will also cover the rise of the networks and the giants of the “Golden Age,” including Lucille Ball, Sid Caesar, and Ed Sullivan. Repeatable = 1 time (GC)

TD-107 History of Film
3.40 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-107
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU

This course 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
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU

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
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Advisory: TD-110L
Accepted For Credit: CSU and UC

This course is an examination and application of theatre elements that relate directly to the actor including, but not limited to, criticism, emotion, stage movement, vocal techniques, theatrical terminology, rehearsal and performance techniques, and script analysis. Repeatable = 1 time (GR) (CAN DRAM 8)

TD-110L Introduction to Acting Performance Attendance Lab
6.00 hrs lab/term
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-112 Acting Styles-Classical
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Prerequisite: TD-110 or equivalent
Accepted For Credit: CSU and 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-113 Screenwriting Basics
3.40 hrs lecture
Units: 3.00
Accepted For Credit: CSU

This course will examine the basics of writing for film, examine the mechanics of both short format and feature length movies, and examine the craft of outlining, treatments, character biographies, dialogue, and pitching. (GC)

TD-114 Acting for the Camera
3.40 hrs lecture, 3.40 hrs lab
Units: 4.00
Accepted For Credit: CSU and UC

This course will include analysis and practical study of techniques and skills necessary for and peculiar to performing in front of the camera. Emphasis is placed on acting, but includes daily work in practical cinematography, directing, script supervision, and crewing for all styles of film. Repeatable = 1 time (GR)

TD-115A Theatre Improvisation
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Corequisite: TD-115L
Accepted For Credit: CSU and 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-115L Theatre Improvisation Performance Attendance Lab
4.00 hrs lab/term
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)

TD-116 Acting Laboratory
3.40 hrs lab
Units: 1.00
Accepted For Credit: CSU and UC

This laboratory class applies the knowledge and techniques gained in the production and technique classes. (GC)

TD-117A Audition/Portfolio Preparation
1.20 hrs lecture, 1.20 hrs lab
Units: 0.50
Accepted For Credit: CSU

This course is designed to help prepare students for a professional audition/interview by developing performance selections, portfolio layouts, and presentational techniques for regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

TD-117A1 Audition/Portfolio Preparation
1.20 hrs lecture, 1.80 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 presentational techniques for regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

2006-2007 OHLONE COLLEGE CATALOG
TD-117A2  
**Audition/Portfolio Preparation**  
1.80 hrs lecture, 1.80 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 presentational techniques for regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

TD-118  
**Survey of Acting Techniques**  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Accepted For Credit: CSU and UC  
This course is an active survey of, and participation in, a variety of public performance techniques, including scene work, monologues, reader’s theatre, improvisation, radio plays, and theatre games. Repeatable = 2 times (CC)

TD-119  
**Directing for the Stage**  
3.40 hrs lecture, 3.40 hrs lab  
Units: 4.00  
Advisory: TD-110, TD-114  
Accepted For Credit: CSU and UC  
This course is a study of the background and techniques of the director in theatre with an emphasis on practical experience in directing through class projects and public performances. (GR)

TD-120A3  
**Student Repertory Theatre**  
10.20 hrs lab  
Units: 3.00  
Prerequisite: Auditions (for actors only)  
Advisory: TD-110  
Accepted For Credit: CSU and UC  
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. 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**  
13.50 hrs lab  
Units: 4.00  
Prerequisite: Auditions (for actors only)  
Advisory: TD-110  
Accepted For Credit: CSU and UC  
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. 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**  
10.20 hrs lab  
Units: 3.00  
Prerequisite: Auditions (for actors only)  
Advisory: TD-120A3 or TD-120A4  
Accepted For Credit: CSU and UC  
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. 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**  
13.50 hrs lab  
Units: 4.00  
Prerequisite: Auditions (for actors only)  
Advisory: TD-120A3 or TD-120A4  
Accepted For Credit: CSU and 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 units to a maximum of 9 units (GR)

TD-121A  
**Dance Rehearsal and Performance**  
6.80 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 (CC)

TD-121B  
**Dance Rehearsal and Performance**  
10.20 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 (CC)

TD-121C  
**Dance Rehearsal and Performance**  
13.50 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 (CC)

TD-121L  
**Dance Rehearsal and Performance Lab**  
2.00 hrs lab/sem  
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**  
6.80 hrs lab  
Units: 2.00  
Prerequisite: Auditions  
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110  
Accepted For Credit: CSU and 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  
Units: 3.00  
Prerequisite: Auditions  
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110  
Accepted For Credit: CSU and 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  
Units: 4.00  
Prerequisite: Auditions  
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110  
Accepted For Credit: CSU and 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  
Units: 7.00  
Prerequisite: Audition  
Accepted For Credit: CSU and 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. Repeatable = 3 times (GR)

TD-126  Summerfest-Featured Parts  
Units: 6.00  
Prerequisite: Audition  
Accepted For Credit: CSU and 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 (GR)

TD-127  Summerfest-Chorus and Instrument Members  
Units: 5.00  
Prerequisite: Audition  
Accepted For Credit: CSU and 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 (GR)

TD-129  Summerfest - Technicians  
Units: 7.00  
Prerequisite: Audition: TD-150  
Accepted For Credit: CSU and 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, i.e., 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  
Units: 3.00  
Prerequisite: Audition: TD-130L  
Accepted For Credit: CSU and 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, i.e., 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-130L  Oral Interpretation of Literature Lab  
Units: 0.00  
Prerequisite: Audition: TD-130L  
Accepted For Credit: CSU and 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, i.e., 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-132  Voice and Diction  
Units: 3.00  
Prerequisite: Audition: TD-132  
Accepted For Credit: CSU and 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, i.e., 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-140  Dance for Musical Theatre  
Units: 2.00  
Prerequisite: Audition: TD-140  
Accepted For Credit: CSU and 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, i.e., 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-141A  Introduction to Ballet  
Units: 3.00  
Prerequisite: Audition: TD-141A  
Accepted For Credit: CSU and 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, i.e., 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-141AL  Ballet Performance Attendance Lab  
Units: 0.00  
Prerequisite: Audition: TD-141A  
Accepted For Credit: CSU and 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, i.e., 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-141B Intermediate Ballet
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-141BL
Advisory: Medical check within last year
Accepted For Credit: CSU and UC

This class continues the training in the fundamentals 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/term
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
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-142AL
Advisory: Medical check within last year
Accepted For Credit: CSU and 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/term
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
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-142BL
Advisory: Medical check within last year
Accepted For Credit: CSU and UC

Students will work on more advanced skills and styles inherent in jazz dance. Classwork will deal with technical skills, combinations of steps, and exploration of composition in jazz dance form. (GC)

TD-142BL Intermediate Jazz Dance Performance Attendance Lab
2.50 hrs lab/term
Units: 0.00
Corequisite: TD-142B
This is a performance attendance lab component at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-142C Advanced Jazz Dance
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-142CL
Accepted For Credit: CSU and UC

Students will complete advanced skills inherent in jazz dance. This advanced level technical jazz dance class will deal with leaps, turns, and technique as well as dance composition. Repeatable = 3 times (GC)

TD-142CL Advanced Jazz Dance Performance Attendance Lab
2.50 hrs lab/term
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 Fine and Performing Arts. Repeatable = 3 times (NG)

TD-143A Introduction to Tap
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-143AL
Advisory: Medical check within last year
Accepted For Credit: CSU and UC

Students will study basic tap dance techniques and elementary tap dances. This class provides students with the opportunity to develop coordination, rhythm, and performance skills. Some history of tap will be included. Repeatable = 3 times (GC)

TD-143AL Introduction to Tap Performance Attendance Lab
2.50 hrs lab/term
Units: 0.00
Corequisite: TD-143A
This is a performance attendance lab component at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-143B Intermediate Tap
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-143BL
Advisory: Medical check within last year
Accepted For Credit: CSU and 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-143BL Intermediate Tap Performance Attendance Lab
2.50 hrs lab/term
Units: 0.00
Corequisite: TD-143B
This is a performance attendance lab component at selected events offered by the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (NG)

TD-143C Advanced Tap Dance
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-143CL
Accepted For Credit: CSU and 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/term
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 Fine and Performing Arts. Repeatable = 3 times (NG)

TD-144A Introduction to Modern Dance
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-144AL
Advisory: Medical check within last year
Accepted For Credit: CSU and 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/term
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 Fine and Performing Arts. Repeatable = 3 times (NG)
TD-144B Intermediate Modern Dance
1.20 hrs lecture, 3.40 hrs lab
Units: 2.00
Corequisite: TD-144BL
Advisory: TD-100
Accepted For Credit: CSU and UC

Students will continue to prepare 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-144BL Intermediate Modern Dance Performance Attendance Lab
2.50 hrs lab/term
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
2.30 hrs lab
Units: 0.50
Advisory: TD-100
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 1.00
Advisory: TD-100
Accepted For Credit: CSU and 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
6.80 hrs lab
Units: 2.00
Advisory: TD-100
Accepted For Credit: CSU and 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
2.30 hrs lab
Units: 0.50
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4 or equivalent
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 1.00
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4 or equivalent
Accepted For Credit: CSU and 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
6.80 hrs lab
Units: 2.00
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4 or equivalent
Accepted For Credit: CSU and 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-148A2 Introduction to Hip Hop
2.30 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU and 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
2.30 hrs lab
Units: 0.50
Prerequisite: Successful completion of TD-148A2 or A3
Advisory: Medical check within last year
Accepted For Credit: CSU and 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
3.40 hrs lab
Units: 1.00
Prerequisite: Successful completion of TD-148A2 or A3
Advisory: Medical check within last year
Accepted For Credit: CSU and 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
1.20 hrs lecture, 3.40 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, costume, and sound. Repeatable = 1 time (GC)

TD-150 Technical Theatre
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Accepted For Credit: CSU and UC

This course introduces the theory and practice of technical theatre production. Emphasis is placed on theatre safety, scenic 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)

TD-152 Introduction to Lighting and Sound
2.30 hrs lecture, 3.40 hrs lab
Units: 3.00
Advisory: TD-150
Accepted For Credit: CSU and UC

This course introduces the basic concepts, technology, and safe practices of lighting and sound reinforcement for the stage and television. Lectures will focus on theory and practice, while lab will provide opportunities to use equipment in “real life” situations. Repeatable = 3 times (GC) (CAN DRAM 10)
TD-153  Scenic Painting  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Advisory: TD-150  
Accepted For Credit: CSU  
This course is a study of various methods of painting theatrical scenery. Tools to be used will include brushes, rollers, sponges, and stencils. Students will learn techniques in faux, trompe-l’oeil, and forced perspective. Students also participate in current department productions. Repeatable = 3 times (GR)

TD-154  Theatrical Makeup for Stage, TV, and Dance  
1.20 hrs lecture, 3.40 hrs lab  
Units: 2.00  
Accepted For Credit: CSU and UC  
This course includes lecture, demonstration and laboratory practice in the design and application of stage and film makeup, including ethnic, fantasy, horror, period styles, and special effects. Repeatable = 3 times (GR)

Costume construction class in the Gary Soren Smith Center for the Fine and Performing Arts

TD-155A  Costume Construction I  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Accepted For Credit: CSU and UC  
This course provides basic costume construction techniques to develop a student’s skill in the use of fabrics, methods and simple patterns in a theatrical context. (GC)

TD-155B  Costume Construction II  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Prerequisite: TD-155A or equivalent  
Accepted For Credit: CSU and UC  
This course provides costume construction techniques to advance students’ skill in the use of special fabrics, methods, and more complex patterns. (GC)

TD-156  Theatrical Costuming  
1.20 hrs lecture, 3.40 hrs lab  
Units: 2.00  
Accepted For Credit: CSU and UC  
This course identifies and provides experience using materials, tools, and techniques used in building costumes. The history of costumes, use of sewing machines, design, and related topics are covered. Repeatable = 3 times (GR)

TD-159  Theatre Management  
2.30 hrs lecture, 3.40 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course is an introduction to the theories and practices of dance, theatre, and music performance management. Students will study advertising, public relations, box office operations, and event staffing. There is practical lab application of studies in conjunction with concurrent productions (student and professional) and/or outside projects in film and TV. (GR)

TD-160A  Production Lab  
1.80 hrs lab  
Units: 0.50  
Accepted For Credit: CSU and UC  
This lab provides hands-on instruction and practice in technical production for theatre, dance, and television. Repeatable = 3 times (GC)

TD-160A1  Production Lab  
3.40 hrs lab  
Units: 1.00  
Accepted For Credit: CSU and UC  
This lab provides hands-on instruction and practice in technical production for theatre, dance, and television. Repeatable = 3 times (GC)

TD-160A2  Production Lab  
6.80 hrs lab  
Units: 2.00  
Accepted For Credit: CSU and UC  
This lab provides hands-on instruction and practice in technical production for theatre, dance, and television. Repeatable = 3 times (GC)

TD-160A3  Production Lab  
10.20 hrs lab  
Units: 3.00  
Accepted For Credit: CSU and UC  
This lab provides hands-on instruction and practice in technical production for theatre, dance, and television. Repeatable = 3 times (GC)

TD-161  Stagecraft Lab (Theatre, Television, Dance)  
3.40 hrs lab  
Units: 1.00  
Accepted For Credit: CSU and UC  
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), i.e., set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

TD-162  Stagecraft Lab (Theatre, Television, Dance)  
6.80 hrs lab  
Units: 2.00  
Accepted For Credit: CSU and UC  
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), i.e., set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

TD-163  Stagecraft Lab (Theatre, Television, Dance)  
10.20 hrs lab  
Units: 3.00  
Accepted For Credit: CSU and UC  
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), i.e., set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

TD-164  Stagecraft Lab (Theatre, Television, Dance)  
13.50 hrs lab  
Units: 4.00  
Accepted For Credit: CSU and UC  
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), i.e., set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

TD-170  Survey of Entertainment Design  
2.30 hrs lecture, 3.40 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  
2.30 hrs lecture, 3.40 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  
2.30 hrs lecture, 3.40 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  
1.20 hrs lecture, 3.40 hrs lab  
Units: 2.00  
Prerequisite: TD-173  
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  
1.20 hrs lecture, 3.40 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, etc.). 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  
2.30 hrs lecture, 3.40 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 TV  
2.30 hrs lecture, 3.40 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 Pro Tools and Cubase. The course is intended for students pursuing careers in audio/technology in the entertainment industry. Repeatable = 2 times (GC)

TD-178  Fundamentals of Rigging  
2.30 hrs lecture, 2.30 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  
2.30 hrs lecture, 3.40 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  
10.20 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  
2.30 hrs lecture, 6.80 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  
4.70 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  
9.40 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  
14.10 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  
18.80 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  
6.80 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)  

**WOMEN’S STUDIES**  
Division: Language Arts, Library, and Social Sciences  

**WS-115**  
Women in Literature  
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: ENGL-115  
Advisory: Eligibility for ENGL-101A  
Accepted For Credit: CSU and UC  
This course is a study of selected fiction, poetry, drama, and essays of British and American women writers past and present. (CC)  

**WS-120**  
Women of the Western World  
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: IS-120  
Advisory: ENGL-101A  
Accepted For Credit: CSU and 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  
3.40 hrs lecture  
Units: 3.00  
Cross-referenced Course: HLTH-150  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU and UC  
This course is a study of the contemporary issues of women’s health at home work from the biological, psychological, and sociological perspectives which 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**  

**WEX-185A1**  
Work Experience Education  
4.70 hrs lab  
Units: 1.00  

**WEX-185A2**  
Work Experience Education  
9.40 hrs lab  
Units: 2.00  

**WEX-185A3**  
Work Experience Education  
14.10 hrs lab  
Units: 3.00  
Corequisite: 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. Accepted For Credit: CSU  
Through a set of learning objectives established by the student, supervisor, and instructor, students shall 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. Repeatable = 3 times for a maximum of 6 units (GC)  

**WEX-195A1**  
Occupational Work Experience Education  
4.70 hrs lab  
Units: 1.00  

**WEX-195A2**  
Occupational Work Experience Education  
9.40 hrs lab  
Units: 2.00  

**WEX-195A3**  
Occupational Work Experience Education  
14.10 hrs lab  
Units: 3.00  

**WEX-195A4**  
Occupational Work Experience Education  
18.80 hrs lab  
Units: 4.00  
Corequisite: 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 four WEX-195 units per semester for a total of 16 WEX units; employment (paid or volunteer) must be in a job related to the students’ major or occupational objective. 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 eight semester units per semester. General Limitations: Students may not enroll in WEX-185 and WEX-195 concurrently. 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 his/her field of study or occupational objective. These experiences will enable students to improve job skills and analyze career opportunities and requirements. Repeatable = 3 times in series to a maximum of 16 units (GC)
Policies of the Ohlone Community College District are posted on the Ohlone 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.

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 nondiscrimination 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 nondiscrimination laws of the State of California.

Ohlone College is committed to the civil rights responsibilities 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 nondiscrimination may be made as follows:

Staff inquiries to:
Dean, Human Resources
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6088

Student inquiries to:
Associate Vice President, Student Services
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
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6088

Student inquiries to:
Vice President, Instruction and Student Services/
    Deputy Superintendent
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6220
Inquiries related to compliance with the Americans with Disabilities Act and the Rehabilitation Act of 1973 may be made as follows:

Vice President, Administration and Information Technology/Deputy Superintendent
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6210

Inquiries related to Sexual Harassment may be made as follows:

Staff inquiries to:
Dean, Human Resources
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6088

Student inquiries to:
Associate Vice President, Student Services
Ohlone College, Building 1
P.O. Box 3909
Fremont, CA 94539
(510) 659-6262

Spanish, Chinese, Vietnamese, and Farsi versions of the Equal Educational and Employment Opportunity Policy are available in the Office of Admissions and Records in Building 1, first floor or by calling (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 Associate Vice President, Student Services 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 Dean, Enrollment Services and Institutional Research. 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 Associate Vice President, Student Services.

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 contact, the student may directly contact the Division Dean. Additional information is available from the Associate Vice President, Student Services.

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, Instruction and Student Services/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 Associate Vice President, Student Services. The Vice President, Administration and Information Technology/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 Associate Vice President, Student Services. The Vice President, Instruction and Student Services/Deputy Superintendent serves as the compliance officer of all the above except ADA and Rehabilitation Act of 1973 complaints. The Vice President, Administration and Information Technology/Deputy Superintendent 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 nonemployee conducting business with the District who engages in sexual harassment and/or sex discrimination.

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; vocational education; physical education; competitive athletics; graduation requirements; student rules, 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 Associate Vice President, Student Services located in Building 1 at (510) 6596262.

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 District or termination from employment for violations of the standards of conduct. The decision to take disciplinary action in any instance rests with the Board of Trustees after consideration of the recommendation of the President/Superintendent 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 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 76937. 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, community services, disciplinary procedures, 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; or 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 any 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 infractions 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 Associate Vice President, Student Services, 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.

<table>
<thead>
<tr>
<th>Completion Rate</th>
<th>1998</th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohlone College</td>
<td>34.3</td>
<td>33.8</td>
<td>40.2</td>
<td>41.9</td>
</tr>
<tr>
<td>Statewide</td>
<td>30.6</td>
<td>34.8</td>
<td>33.7</td>
<td>35.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transfer Rate</th>
<th>1998</th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohlone College</td>
<td>28.4</td>
<td>26.8</td>
<td>19.6</td>
<td>20.6</td>
</tr>
<tr>
<td>Statewide</td>
<td>27.0</td>
<td>23.6</td>
<td>22.1</td>
<td>21.4</td>
</tr>
</tbody>
</table>

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.

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, and M for visitors, guests, and students for up to one-hour parking. 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 these parking stalls. 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 5, 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.
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 fixed.

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 call (510) 659-6111 or go to the Campus Police Services Web site at http://www2.ohlone.edu/org/security/.

2006-2007 OHLONE COLLEGE CATALOG
Chapter 11
DISTRICT PERSONNEL

Douglas Treadway
President/Superintendent

Deanna Walston
Vice President, Administration and Information Technology/
Deputy Superintendent

James Wright
Vice President, Instruction and Student Services/
Deputy Superintendent

Ralph Kindred
Associate Vice President, Information Technology

Ron Travenick
Associate Vice President, Student Services

Personnel photos courtesy of Cheryl Lambert
ADMINISTRATION

Walter Birkedahl  
Dean, Fine Arts, Business, and Broadcasting

Michael Bowman  
Dean, Enrollment Services and Institutional Research

Martha Brown  
Dean, Counseling

Lyle Engeldinger  
Dean, Human Resources/Payroll

Ralph Kindred  
Associate Vice President, Information Technology

Sharlene Limón  
Dean, Health and Exercise Sciences

Joseph McLaughlin  
Dean, Deaf Studies and Special Services

Ronald Quinta  
Dean, Math, Science, and Technology

Joanne Schultz  
Dean, Business Services

Mikelyn Stacey  
Dean, Language Arts, Library, and Social Sciences

Leta Stagmaro  
Dean, Newark Center for Health Sciences and Technology and Entrepreneurial Programs

Ron Travenieck  
Associate Vice President, Student Services

Douglas Treadway  
President/Superintendent

Deanna Walston  
Vice President, Administration and Information Technology/Deputy Superintendent

James Wright  
Vice President, Instruction and Student Services/Deputy Superintendent

BOARD OF TRUSTEES

Dan Archer  
Robert Brunton  
President  
Ruthe Foster  
Bill McMellin  
Nick Nardolillo  
Vice President  
Tristan Tilma  
Student Board Member  
John Weed  
Garrett Yee

MANAGEMENT

Simon Barros  
Director, Facilities

Patrice Birkedahl  
Director, College Relations

Christopher Booras  
Director, Theatre Operations

Paula Bray  
Assistant Director, Facilities

Marian Castaneda  
Director, Purchasing, Contract Administration, and Auxiliary Services

Robert Dochterman  
Director, Radio Operations

Ramona Farley  
Bookstore Manager

Mannoham Gill  
Custodial/Grounds Supervisor

Kelly Green  
Bio Tech Program Coordinator

Deborah Griffin  
Director, Financial Aid

Josephine Hawkins  
Executive Director, Ohlone College Foundation

Yvonka Headley  
One-Stop Career Center Coordinator, PFC

Les Hedman  
Director, Information Technology

Donna Ireland  
Senior Human Resources Specialist

Kathleen Johnson  
Senior Human Resources Specialist

Gary Kauf  
Director, Television Operations

Barbara Mareum  
Senior Human Resources Specialist

Donna Ordahl  
Executive Assistant to the Vice President, Administration and Information Technology/Deputy Superintendent

Sharon Quintana  
Lead Senior Human Resources Specialist

Kimberly Robbie  
Registrar

Jill Rojas  
Executive Assistant to the Associate Vice President, Student Services

Marlene Rose  
Duplicating Services Supervisor

Josefina Sette  
Project Manager, Beta Grant

Dave Smith  
Executive Director, Asset and Enterprise Management Services

Pam Suedigar  
Callanet Regional Director

Anuradha Suresh  
WIB Program Training Coordinator

Connie Teshara  
Executive Assistant to the Vice President, Instruction and Student Services/Deputy Superintendent

Debra Trigg  
Director, Campus Activities and Extended Opportunity Programs and Services

Jeffry Villano  
Information Technology Support Manager

Kelly Wilmeth  
Interim Supervisor, Interpreter Services

Sarah Zentner  
Assistant to the President/Superintendent

Joe Zermeno  
Beta Grant Bus/Industry Liaison

Vacant  
Chief, Safety and Security

Vacant  
Director, Grants Development

Vacant  
Manager, Customer and Lab Support

Vacant  
Supervisor, Human Resources and Payroll

EMERITUS FACULTY AND STAFF

Alexander, Norma (1975-1992)  
Professor, Mathematics

Instructional Assistant, Typing

Bookstore Manager

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

Blanchard, Janice M. (1968-1994)  
Director General Services/Purchasing

Director of Library Services

Blomerley, Peter (1979-1994)  
Professor, President/Superintendent

Professor, Psychology

Warehousekeeper

Bremner, Sally A. (1973-2001)  
Professor, Medical Office Assisting

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

2006-2007 Ohlone College Catalog
Clamp, Betty A. (1975-1999)  
Professor, Consumer & Family Sciences

Professor, History

Collins, Miloslava (1969-1993)  
Professor, French and German

Croghan, Jack (1975-1994)  
Professor, Physical Education

Associate Professor, English/Writing Lab

Professor, Spanish

Executive Assistant to the President/Superintendent

Senior Office Assistant

Professor, History

Professor, Mathematics

Professor, English

Duman, Nancy A. (1972-1992)  
Professor, Nursing

Professor, Engineering

Professor, Business/Work Experience Education

President/Superintendent

District Cashier

Frawley, Allen J. (1966-1990)  
Vice President, Business Services

Furniss, Gloria Villasana (1979-1997)  
Board of Trustees

Vice President, Student Services

Professor, Biology

Halland, Walter (1971-2000)  
Professor, Biology

Professor, Supervision

Halverson, Ronald (1977-1993)  
Assistant Professor, Landscape/Horticulture

Professor, Art

Hendrickson, Barbara C. (1967-1989)  
Professor, English

Hendrickson, Karen M. (1990-2001)  
Board of Trustees

President/Superintendent

Assistant to the Vice President

Lead Custodian

Professor, Business Administration

Kane, Meredith (1972-1996)  
Professor, Counseling

Dean of Instruction

Administrative Secretary II

Administrative Secretary

Board of Trustees

Kelly, Frances J. (1977-1997)  
Senior Media Assistant

Kennedy, Eileen (1993-1997)  
Vice President, Instruction

Kleut, Jim (1967-2005)  
Professor, Chemistry

Professor, Business Office Technology

Word Processing Specialist

Krappenzbacher, Judith E. (1969-2001)  
Professor, Psychology/ Counseling

Custodian/Pool Maintenance

Leclercq-Rotar, Joan (1967-2000)  
Professor, Business Office Technology

Adjunct Instructor, Theatre: Arts

Maloney, John (1971-2000)  
Professor, English

Assistant Dean, Student Services

Professor, Nursing

Assistant Professor, English/Reading Lab

Vice President, Instruction

Professor, Art

Moeller, Patricia (1973-1993)  
Professor, Nursing

Morrisson, Margaret S. (1972-2000)  
Professor, Speech

Nagel, Sheldon (1966-1997)  
Professor, History; Division Dean, Math, Social and Natural Sciences

Nakasako, F. Frank (1968-1988)  
Assistant Dean of Counseling

Professor, Hearing Impaired

Professor, Mathematics

Professor, Administration of Justice

Pavl, Marys J. (1967-2001)  
Professor, Biology

Professor, Physical Education

Professor, Computer Studies

Penso, Kiyoko (1979-2002)  
Programmer/Analyst

Assistant to the President

Associate Professor, Geography/Anthropology/Geology

Lead Operator/Operations Supervisor

Professor, Psychology

Reid, Gloria (1986-2005)  
Professor, English

Professor, Journalism

Professor, Physical Education

Richter, William B. (1968-1979)  
President/Superintendent

Rohn, Dennis (1971-2004)  
Professor, Philosophy

Rosenbaum, Karen (1967-2001)  
Professor, English

Sanchez, Maria L. (1984-2000)  
Assistant Professor, Tutorial Coordinator

Board of Trustees

Professor, English

Seiden, Robert M. (1968-2001)  
Professor, Psychology

Coordinator, Career Planning & Placement Center

Smith, Gary Soren (1967-1993)  
Division Director

Work Processing Operator

Accounting Technician II

Associate Professor, Administration of Justice

Soracco, Carla (1978-1995)  
Professor, Physical Education

Professor, Philosophy

Stillman, Barton G. (1968-1994)  
Professor, Computer Studies

Stocking, Arlene V. (1974-1992)  
Instructional Assistant, Early Childhood Studies

Sturhahn-Urband, Lynne (1986-1999)  
Instructor, Clinical Coordinator/Respiratory Therapy

Assistant Professor, Business/Office Administration

Tansley, Kathleen H. (1986-1997)  
Executive Secretary

Assistant Professor, Mathematics

Professor, Business/Office Administration

Professor, Art

Professor, Transportation

Professor, Physical Education

Waters, Verle (1975-1990)  
Assistant Dean of Instruction

Dean, Language Arts

Administrative Secretary

Professor, Counseling

Waters, Verle (1975-1990)  
Assistant Dean of Instruction

Dean, Language Arts

Administrative Secretary
Professor, Chemistry

Willis, Debra L. (1981-1996)
Instructional Assistant, Writing Lab

Wolfe, H. Don (1967-1982)
Assistant Dean, Counseling

Associate Professor, Business Office Technology

---

**FULL-TIME FACULTY**

Ahnhola, Brenda
Assistant Professor, Speech and Communication Studies
B.A., University of Nebraska; M.A., University of Northern Iowa

Arellano, Rick
Associate Professor, Computer Applications and Occupational Technology
B.A., M.A., San Francisco State University

Arteaga, Brenda
Instructor, Counselor
B.A., University of California, Berkeley; M.A., San Jose State University

Baczuk, John D.
Professor, English
B.A., California State University, San Bernardino; M.A., State University of New York, Buffalo

Bain, Lottie
Professor, Physical Education
A.A., Western Valley College; B.A., California State University, Chico; M.A., Saint Mary's College of California

Bardell, Darren
Assistant Professor, History
B.A., University of California, Santa Barbara; M.A., San Diego State University

Baruly, Mark
Professor, Biology
B.S., University of Louisville; Ph.D., University of California, Berkeley

Baxter, James
Associate Professor, Biology
B.S., M.A., University of Kansas; Ph.D., University of California, Berkeley

Belasky, Paul
Associate Professor, Geology/Geography
A.B., University of California, Berkeley; M.S., San Jose State University; Ph.D., University of California, Los Angeles

Bennett, Bruce
Professor, English
B.A., Cornell University; M.A., M.Ed., University of California, Berkeley

Berkland, Diane
Assistant Professor, Counselor
B.A., California Lutheran University; M.A., San Jose State University

Birkedahl, Walter
Associate Professor; Dean, Fine Arts, Business, and Broadcasting
B.Mus., University of Texas, Austin; M.B.A., George Mason University; M.Mus., Catholic University of America

Bizer, Steven
Associate Professor, Mathematics
B.A., Humboldt State University; M.S., San Diego State University

Blank, Thomas L.
Associate Professor, Theatre and Dance
B.A., University of San Francisco; M.F.A., University of California, Los Angeles

Bolt, Christine A.
Professor, Business Administration
B.A., University of California, Davis; M.B.A., California State University, Sacramento

Bowman, Michael
Professor; Dean, Enrollment Services and Institutional Research
B.A., University of Redlands; M.A., San Jose State University

Bradford, David
Assistant Professor, Computer Science/Database Administration
B.S., University of California, Berkeley; M.S., University of California, Davis; M.S., University of Wisconsin, Madison

Bradhaw, Robert J.
Professor, Mathematics
A.B., University of California, Berkeley; M.S., California State University, Hayward

Bressler, Curtis
Associate Professor, Mathematics
B.A., M.S., M.A., University of Colorado

Brossmer, Mark
Assistant Professor, English
B.A., University of California, Los Angeles; M.A., University of Washington

Brown, Martha
Associate Professor, Counseling-Hearing Impaired; Dean, Counseling
B.A., University of Illinois; M.A., Northern Illinois University

Buechler, Lesley
Associate Professor, Computer Applications and Occupational Technology
B.S., University of Phoenix; M.A., San Jose State University

Carli, Gale
Professor, Medical/Surgical Nursing
B.S.N., University of San Francisco; M.S., San Francisco State University; Ph.D., Argosy University

Cominos, Richard
Assistant Professor, Administration of Justice
A.A., Hartnell College; B.A., M.S., San Jose State University

Cooper, Sarah
Instructor, Psychology
B.A., Humboldt State University; M.A., Northern Arizona University

Corcoran, Janet
Assistant Professor, Counselor
A.A., Ohlone College; B.A., M.S., California State University, Hayward

Cowan, D. Mike
Professor, Physical Education
B.A., California State University, Hayward; M.A., University of San Francisco

Cunningham, Susan
Associate Professor, English Composition
B.A., University of Southern California; M.A., Idaho State University

Curtis, Mary V.
Associate Professor, English as a Second Language
B.S., Trenton State College; Ed.M., Temple University

Dadgar, Nadia H.
Assistant Professor, Counselor
B.S., M.A., California State University, Hayward

Dameron, Carrie
Assistant Professor, Medical/Surgical Nursing
A.A., Ohlone College; B.S., M.S., University of Phoenix

David, Cecile
Professor, English
B.S., De La Salle University, Philippine; M.S., California State University, Fullerton

Dean, Jeffrey S.
Assistant Professor, English Composition
A.A., East Los Angeles College; A.B., University of California, Berkeley; M.A., University of San Francisco

Degallier, Jon
Instructor, Computer Science
B.S., Sonoma State University; M.S., California State University, Chico

Desmet, Luc
Professor, Physics/Astronomy
B.A., University of Antwerp, Belgium; Ph.D., University of Louvain, Belgium

De Unamuno, Michael
Instructor, Counselor
A.A., Ohlone College; B.S., California State University, Sacramento; M.A., San Jose State University

Dewan, Katherine
Associate Professor, Obstetrics/Pediatrics Nursing
B.S., Humboldt State University; M.N., University of Washington

Einfield, Sheryl
Instructor, PTA Program
B.S., California State University, Hayward; M.S., University of Southern California

Ellis, Claire
Associate Professor, Counselor for Deaf/Disabled Students
B.A., Gallaudet University; M.S., San Francisco State University

Fang, Xisheng
Professor, Computer Science
M.S., Ph.D., Shanghai Jiao Tong University, China; M.S., Columbia University

Frank, Katherine
Associate Professor, Art
B.A., Tulane University; M.A., California College of Arts and Crafts

Gallagher, Perri
Assistant Professor, English
B.A., University of California, Berkeley; M.A., Stanford University

Ganguly, Amsuree
Associate Professor, Chemistry
B.S., Sophia College, University of Bombay, India; M.S., Institute of Science, Bombay, India; Ph.D., Southern Illinois University

Gao, Yong Q.
Professor, Computer Science
M.S., M.S., Ph.D., Southern Illinois University

Genera, Evangelina
Professor, Counselor
A.A., Sacramento City College; A.B., M.A., University of California, Berkeley; M.S., California State University, Hayward; Ed.D., University of San Francisco
Kawasaki-Hull, Kerrie
Associate Professor, Information Literacy/Collection Development Librarian
B.A., California State University, Chico;
M.L.S., San Jose State University

Grotegut, Richard L.
Associate Professor, Computers, Networks, and Emerging Technology
B.A., M.A., San Jose State University

Guptill, Christopher
Associate Professor, Entertainment Theatre Technology
B.A., University of California, Berkeley; M.A., University of Wisconsin

Harper, Jennifer
Associate Professor, Counselor
B.A., Sonoma State University; M.A., San Jose State University

Harrison, Kay
Professor, English/Speech and Communication Studies
B.S., Wesleyan University; M.A., California State University, Hayward; M.A., Pacific Graduate School of Psychology

Helms, Sheldon
Assistant Professor, Psychology
B.A., M.A., California State University, Bakersfield

Hilke, Fred
Professor, Counseling/Physical Education; Coordinator, Disabled Students Program Services
A.A., Chabot College; B.S., M.A., California State University, Fresno

Hirsch, Geoffrey A.
Associate Professor, Mathematics
B.A., University of California, Berkeley; M.A., University of the Philippines

Holecomb, Thomas K.
Professor, Deaf Studies/ASL
B.A., Gallaudet University; M.S., Rochester Institute of Technology; Ph.D., University of Rochester

Homma, Chicko
Assistant Professor, Mathematics
B.S., M.S., San Jose State University

Hurley, Jennifer A.
Assistant Professor, English
B.A., University of California, San Diego; M.A., Boston University

Hurtado, Jose L.
Professor, Counselor
B.A., M.A., San Jose State University; Ed.D., University of the Pacific

Jones, Janice
Professor, Early Childhood Studies
B.A., M.A., California State University, Hayward; Ed.D., University of San Francisco

Katona, Cynthia Lee
Professor, English/Journalism
B.A., M.A., California State University, Hayward

Katz, Ilene S.
Professor, Mathematics
B.A., M.S., Monmouth College

Kauffman, Margaret
Professor, Biology
B.S., Cornell University; M.A., Ph.D., Princeton University

Kawasaki-Hull, Kerrie
Professor, English
A.B., University of California, Davis; M.Ed., University of California, Los Angeles; M.A., California Polytechnic State University, San Luis Obispo

Keller, Dennis
Professor, Music
B.M.Ed., Mount Union College; M.M., University of Arizona

Kendall, E. Gene
Associate Professor, Physical Education; Men’s Water Polo Coach
B.S., San Jose State University; M.A., Saint Mary’s College of California

Khare, Poonam
Instructor, Nursing
B.S.N., All India Institute of Medical Sciences, India; M.S.N., Florida State University

Kirshner, Alan
Professor, History/Political Science
B.A., Hofstra College; M.A., City College of New York; Ph.D., New York University

Klopping, Sandra
Professor, Deaf Studies, Hearing Impaired/American Sign Language
B.S., Indiana University; M.Ed., University of Arizona; M.A., California State University, Northridge

Kuehner, Alison
Associate Professor, English
B.A., University of California, Berkeley; M.A., University of Chicago

Kwok-Yip, Mandy
Assistant Professor, Counselor
Special Education Teaching Credential, Sir Robert Black College of Education, Hong Kong; M.A., San Jose State University

Landavazo, James A.
Professor, Media Librarian
B.A., Chabot College; B.A., California State University, Hayward; M.S., California State University, Fullerton

Lawrence, Shelley
Professor, Deaf Studies/Interpreting/American Sign Language
B.A., California State University, Northridge; M.A., California State University, Hayward

Lemon, Deborah
Assistant Professor, Spanish
B.A., North Carolina State University; M.A., University of California, Santa Barbara

Lentz, Alyce S.
Associate Professor, Deaf Studies
B.A., M.A., Gallaudet University

Lewis, Pilar
Assistant Professor, Multimedia
B.A., M.A., California State University, Hayward

Lieu, Mark
Professor, English as a Second Language
B.A., University of California, Davis; M.A., San Francisco State University

Limón, Sharlene A.
Professor, Dean, Health and Exercise Sciences
B.S., San Francisco State University; M.S., University of California, San Francisco

Lukianoff, Victoria
Assistant Professor, Mathematics
M.S., Technical University of Wroclaw, Poland

Lucanski, Cynthia A.
Professor, Art
B.F.A., University of Dayton; M.F.A., Mills College

Madden, Carmen
Assistant Professor, English
A.A., Chabot College; B.A., M.A., San Francisco State University

Maskatia, Shirin
Professor, English Composition
B.A., St. Xavier’s College, India; M.A., Ph.D., Cornell University

Massay, Doris
Instructor, Nursing
B.S.N., Holy Names College; M.S.N., San Jose State University

Massimo, Teresa
Assistant Professor, Speech and Communication Studies
B.A., California State University, Fresno; M.A., California State University, Chico

McDowell, J. Michele
Associate Professor, Early Childhood Studies
B.S., California State Polytechnic University, Pomona; M.B.A., University of California, Irvine; M.S., California State University, Hayward

McLaughlin, Joseph
Associate Professor, Dean, Deaf Studies and Special Programs
B.A., Gallaudet University; M.A., University of British Columbia

McMahon, Thomas
Professor, Psychology
A.A., Grossmont College; B.A., Humboldt State University; M.S., San Diego State University

McManus, James
Professor, Music
B.A., University of California, Santa Cruz; M.A., University of Massachusetts; D.M.A., University of Illinois

McNamee-Cole, Carol
Professor, Respiratory Therapy
B.A., University of Michigan; M.A., San Jose State University

Mencher, Kenny
Associate Professor, Painting/Art History
B.A., City University, New York; M.A., University of California, Davis; M.F.A., University of Cincinnati
Messia, Linda
Associate Professor, Mathematics
B.S., Lowell Technological Institute; M.S., University of Massachusetts

Mishra, Gajendra M.
Professor, Engineering
B.S., University of Ranchi, India; M.S., University of Hawaii

Mitchell, Robert
Associate Professor, English
B.A., Abrilene Christian College; M.A., Lone Mountain College; M.A., Holy Names College

Moore, Paul
Professor, Physical Education; Men's Baseball Coach
B.A., California Baptist College; M.A., Chapman College

Morodomi, Carol
Instructor, PTA Program/ACCE
B.S., M.P.T., California State University, Fresno

Mosleh, Fatemeh (Tina)
Instructor, Economics
B.A., M.A., San Jose State University

Mueller, Paul
Instructor, Art (Photography)
B.A., San Francisco Art Institute; M.F.A., Stanford University

Munding, Tania
Professor, Mathematics
M.A., Saratov State University of Chernyshhevsky, Russia; Ph.D., Moscow State Pedagogical University, Russia

Myers, Susan
Assistant Professor, Counselor
B.A., M.A., University of Nevada, Reno

Narayan, Venki
Professor, Physics/Engineering
B.S., University of Kerala, India; M.S., Indian Institute of Technology, India; M.S., University of Illinois; Ph.D., University of California, Berkeley

Nguyen, Anh
Instructor, Mathematics
B.S., University of California, Davis; M.S., San Jose State University

Nicolls, Yeete L.
Associate Professor, Chemistry
B.S., M.A., Stanford University; B.A., M.S., California State University, Hayward

O’Connell, Jeffrey P.
Assistant Professor, Mathematics
A.A., Diablo Valley College; B.S., University of California, Davis; M.S., San Jose State University

Olsen, Connie
Assistant Professor, English as a Second Language
B.A., California Baptist University; M.A., Claremont Graduate University; M.A., University of Buffalo; M.A., Ohio University

O’Neill, Rosemary
Instructor, Counselor
B.A., M.A., Humboldt State University

Oppenheim, Bennett
Professor, Sociology/Computer Science
A.A., Ventura College; A.B., University of California, Berkeley; M.A., Ph.D., University of California, San Francisco

Owen, Denise
Professor, Art
B.Arch., Miami University, Ohio; M.Arch., University of California, Berkeley

Parks, William
Associate Professor, Journalism
B.A., Michigan State University; M.S., San Jose State University

Parziali, Deborah
Professor, Nursing
B.S.N., Northeastern University; M.S., Russell Sage College

Paulinkonis, Nancy
Associate Professor, Deaf Studies/Hearing Impaired/English
B.S., University of Tulsa; M.A., San Jose State University

Pelimiano, Mylene S.
Associate Professor, Mathematics
B.S., M.S., California State University, Hayward

Peters, Jack
Professor, Counselor
A.A., Foothill College; B.A., University of Santa Clara; M.S., California State University, Hayward

Peterson, Jr., John
Associate Professor, Physical Education; Men’s Basketball Coach
B.A., University of California, Santa Barbara; M.A., University of California, San Francisco

Pimmartz, Vernon
Professor, Business Administration
B.S., M.B.A., San Jose State University

Potat, Denise
Instructor, Biology
B.A., M.A., University of California, Berkeley

Quinta, Ronald
Professor, Dean, Math, Science, and Technology
B.A., M.A., California State University, Hayward; Ed.D., University of San Francisco

Ramirez, Maria
Associate Professor, Counselor
B.A., M.S., California State University, Hayward

Roberts, Tim
Instructor, Music (Commercial)
B.S., Kalamazoo College; M.A., San Jose State University

Rodgers, George
Associate Professor, Anthropology/Geography/Geology
A.A., Ohlone College; B.A., California State University, Hayward; M.S., University of San Francisco

Runyon, Donna
Associate Professor, Physical Education; Women’s Softball Coach
B.S., Lock Haven State University; M.A., Saint Mary’s College of California

Salinas, Mark
Instructor, Chicano/Chicana Studies
B.A., M.A., San Francisco State University

Schoenecker, Paula
Associate Professor, Learning Disabilities Specialist
B.S., M.S., California State University, Hayward

Scotofield, Sally
Assistant Professor, Medical/Surgical Nursing
B.S., University of San Tomas, Philippines; M.S., San Francisco State University

Segraves, Margery
Associate Professor, Computers, Networks, 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

Silva, Elizabeth
Associate Professor, Learning Resources Center Coordinator
B.A., San Diego State University; M.A., University of California, Berkeley

Singh, Vajinder
Professor, Electronics
B.S., M.S., Punjab University, India; M.S., Kansas State University

Sinhaidi, Ralph
Associate Professor, Biotechnology
B.S., M.S., Ph.D., University of Illinois

Smeldfield, Robert
Associate Professor, Mathematics
B.E., State University of New York at Stony Brook; M.S., Stanford University; M.S., California State University, Hayward

Sparing, Katherine
Associate Professor, Systems and Technical Services Librarian
B.A., M.L.I.S., University of California, Berkeley

Stacey, Mike
Associate Professor, Dean, Language Arts, Library, and Social Sciences
B.A., M.Ed., University of Arizona

Stagner, Leta B.
Professor, Dean, Newark Center for Health Sciences and Technology, Entrepreneurial Programs
B.S., M.S., California State University, Hayward; M.B.A., University of Phoenix

Stasekow, Ronald E.
Professor, Mathematics/Biomedical Mathematics
B.A., Saint Mary’s College of California; M.A., University of California, Santa Barbara

Siles, Kim
Instructor, Nursing
A.A.S., State University of New York; B.S.N., Excelsior College; M.S.N., The College of New Rochelle

Story, Heidi
Associate Professor; Director of Clinical Education/Respiratory Therapist
A.A., West Valley College; Respiratory Therapist Certificate, Bossier Parish Community College

Strickler, Carolyn M.
Professor, Business Administration
B.A., M.A., San Francisco State University

Swamy, Rakesh
Assistant Professor, English
B.A., Brigham Young University; M.S., California State University, Hayward

Takakawa, 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

2006-2007 OHLONE COLLEGE CATALOG

DISTRICT PERSONNEL

209
CLASSIFIED STAFF

Agapen, John  
Custodian  
Facilities

Alim, Fred  
Theatre Arts Technician  
Division of Fine Arts, Business, and Broadcasting

Almeida, Elliott  
Facilities/Equipment Attendant  
Athletics Department

Andrews, Paula  
Library Technician  
Division of Language Arts, Library, and Social Sciences

Arellano, Sandra  
Office Assistant  
Human Resources

Avina, Marcie  
Staff Captioner II  
Division of Deaf Studies and Special Services

Baldini, Janet  
Evaluation Specialist  
Office of Admissions and Records

Banh, Trang  
Student Applications Coordinator  
Office of Admissions and Records/Office of Financial Aid

Banellos, Cynthia  
Buyer  
Purchasing

Barkow, Heidi  
Educational Services Support I  
Curriculum Office

Bega, Frank  
Custodian  
Facilities

Bellamy, Inga  
Senior Office Assistant  
Extended Opportunity Programs and Services

Benavidez, Irene  
Executive Assistant  
Division of Math, Science, and Technology

Bennett, Sandy  
EOPS/CARE Program Coordinator  
Extended Opportunity Programs and Services

Bettencourt, Dennis  
Network Support Tech II  
Information Technology

Bly, Allison  
Orientation Coordinator  
Counseling

Bowman, Jennifer  
Instructional Assistant, English Learning Center  
Division of Language Arts, Library, and Social Sciences

Cardenas, Victor  
DSPS Instructional Assistant  
Division of Deaf Studies and Special Services

Chen, Hong  
Math Learning Center Coordinator  
Division of Math, Science, and Technology

Clark, Keith  
Skilled Maintenance Mechanic Carpenter/Locksmith  
Facilities

Clark, Monica  
Staff Interpreter I  
Division of Deaf Studies and Special Services

Cox, James  
Student Services Assistant  
Office of Financial Aid

Cragen, 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

De La Cruz, Juan  
Custodian  
Facilities

Dempsey, James  
Custodian  
Facilities

Dickerman, Linda  
Library Technician  
Division of Language Arts, Library, and Social Sciences

Dinh, Minh  
Financial Aid/Admissions and Records  
Communications Management Technician  
Office of Financial Aid/Office of Admissions and Records

Dodson, Tina  
Program Coordinator, Case Manager  
One-Stop Career Center

Driver, Dennis  
Computer Lab Coordinator  
Information Technology

Druels, Jennifer  
Bookstore Assistant  
Ohlone College Bookstore
Gizycki, Gosia
Research and Systems Analyst
Information Technology

Garza, Diana
Staff Interpreter
Division of Deaf Studies and Special Services

Garcia, Lidia
Senior Office Assistant
Entrepreneurial Programs

Garcia, Antonio
Accountant, Accounts Payable
Business Services

Duval, Elva
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
Lab Technician/Biology
Division of Math, Science, and Technology

Feltrup, Bonnie
Executive Assistant
Division of Fine Arts, Business, and Broadcasting

Ferea, Larry
Lead Gardener/Groundskeeper
Facilities

Fernandez, Linda
Instructional Assistant, Writing Lab
Division of Language Arts, Library, and Social Sciences

Fresquez, Adam
Theater Operations Technician
Division of Fine Arts, Business, and Broadcasting

Gallegos, Willie
Custodian/Pool Maintenance
Facilities

Garcia, Antonio
Custodian
Facilities

Garcia, Lidia
Bookstore Textbook Coordinator
Ohlone College Bookstore

Garza, Diana
Board of Trustees Support Coordinator
Office of the President

Gatherer, Sheridan
Staff Interpreter I
Division of Deaf Studies and Special Services

Girycki, Gisela
Marketing Coordinator
College Relations

Gomez, Juan
Gardener/Groundskeeper II
Facilities

Gong, Jasper
Technical Coordinator
Division of Fine Arts, Business, and Broadcasting

Gonzalez, Renee
Student Services Assistant
Campus Activities

Gonzalez, Arnulfo
Gardener/Groundskeeper II
Facilities

Graf, Matthew
Radio Station Technician
Division of Fine Arts, Business, and Broadcasting

Gray, Zone
Warehousekeeper
Facilities

Griffin, Harold
Central Services Specialist
Business Services

Gutierrez, Vivian
Student Services Assistant
Office of Admissions and Records

Hallwell, Racette
Bookstore Assistant
Ohlone College Bookstore

Harchous, Thomas
Maintenance Mechanic
Facilities

Hayden, Robert
Computer Lab Tech I
Information Technology

Hoagland, Carol
Senior Office Assistant
Campus Police

Hoang, Nam
Senior Accountant, Accounts Receivable
Business Services

Huang, Stella
Accounting Tech III
Business Services

Huang, Xi Cheng
Custodian
Facilities

Hudiono, Chendranata
Learning Center Coordinator
Division of Math, Science, and Technology

Hunnicutt, Jerome
Custodian
Facilities

Hunter, Zelma
Executive Assistant
Division of Health and Exercise Sciences

James, Etheridge
Staff Interpreter I
Division of Deaf Studies and Special Services

Jiang, Cuiya
Accounting Technician III
Human Resources

Johnson, Alvin
Gardener/Groundskeeper II
Facilities

Johnson, Susan
College Information Center Specialist
Enrollment Services

Johnson, Tim
Staff Interpreter I
Division of Deaf Studies and Special Services

Jones, Kara
Staff Interpreter I
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, Chris
Accounting Technician IV
Human Resources

Lane, Ellen
Senior Programmer Analyst
Information Technology

Lane, Patrick
Network Systems Administrator
Information Technology

Lawrence, Edward
Accounts Payable Accounting Technician IV
Business Services

Lee, Kwe-Ying
Information Services Engineer
Information Technology

Leon, Jennifer
Capital Projects Coordinator
Business Services

Li, John
Budget Analyst
Business Services

Lin, Wei-Yang
Instructional Assistant, Tutoring and Student Technology
Information Technology

Lo, David
Senior Programmer Analyst
Information Technology

Loleng, Arnie
Television Operations Technician
Division of Fine Arts, Business, and Broadcasting

Lopez-Cepeda, Ana-Maria
Executive Assistant
Entrepreneurial Programs

Luk, Joyce
Biotechnology Lab Technician
Division of Math, Science, and Technology

2006-2007 OHLONE COLLEGE CATALOG
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Department/Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luk, Karen</td>
<td>Student Services Assistant Testing Center</td>
<td></td>
</tr>
<tr>
<td>Ma, Ying</td>
<td>Custodian Facilities</td>
<td></td>
</tr>
<tr>
<td>Maglinao, Mario</td>
<td>Custodian Facilities</td>
<td></td>
</tr>
<tr>
<td>Magnusson, Linda</td>
<td>Library Technician Division of Language Arts, Library, and Social Sciences</td>
<td></td>
</tr>
<tr>
<td>Marques, Sila</td>
<td>Executive Assistant Division of Math, Science, and Technology</td>
<td></td>
</tr>
<tr>
<td>Martinez, Kathleen</td>
<td>Executive Assistant Division of Language Arts, Library, and Social Sciences</td>
<td></td>
</tr>
<tr>
<td>Martinez, Michael</td>
<td>Skilled Maintenance Mechanic/HVAC Facilities</td>
<td></td>
</tr>
<tr>
<td>Martinez, Rosemarie</td>
<td>Senior Office Assistant Counseling</td>
<td></td>
</tr>
<tr>
<td>Mason, Sean</td>
<td>Information Services Systems Administrator Information Technology</td>
<td></td>
</tr>
<tr>
<td>Maund, Patricia</td>
<td>Administrative Secretary I Information Technology</td>
<td></td>
</tr>
<tr>
<td>McFadden, Beverly</td>
<td>Senior Office Assistant Campus Police</td>
<td></td>
</tr>
<tr>
<td>McMahon, Susan</td>
<td>Health Sciences Skills Lab Coordinator Division of Health and Exercise Sciences</td>
<td></td>
</tr>
<tr>
<td>Mendoza, Miguel</td>
<td>Security Officer I Campus Police</td>
<td></td>
</tr>
<tr>
<td>Miller, Steven</td>
<td>Maintenance/Energy Electrician Facilities</td>
<td></td>
</tr>
<tr>
<td>Moralez, Carlene</td>
<td>Senior Office Assistant Campus Police</td>
<td></td>
</tr>
<tr>
<td>Moreci, Steven</td>
<td>Network Support Technician II Information Technology</td>
<td></td>
</tr>
<tr>
<td>Murphy, Gwenech</td>
<td>Security Officer II Campus Police</td>
<td></td>
</tr>
<tr>
<td>Nacu, Roman</td>
<td>Custodian Facilities</td>
<td></td>
</tr>
<tr>
<td>Navarrete, Danny</td>
<td>Off-Site Employment Developer, Workability III Division of Deaf Studies and Special Services</td>
<td></td>
</tr>
<tr>
<td>Nordquist, Kurt</td>
<td>Skilled Maintenance Mechanic (HVAC) Facilities</td>
<td></td>
</tr>
<tr>
<td>Nguyen, Tuongvan</td>
<td>Lab Technician/Chemistry Division of Math, Science, and Technology</td>
<td></td>
</tr>
<tr>
<td>Ochoa, Saul</td>
<td>Painter Facilities</td>
<td></td>
</tr>
<tr>
<td>Ong, Eileen</td>
<td>Staff Captioner I Division of Deaf Studies and Special Services</td>
<td></td>
</tr>
<tr>
<td>Orr, William</td>
<td>Lead Custodian Facilities</td>
<td></td>
</tr>
<tr>
<td>Ortega, Rebeca</td>
<td>Library Assistant Division of Language Arts, Library, and Social Sciences</td>
<td></td>
</tr>
<tr>
<td>Ortzi, Robert</td>
<td>Evaluation Specialist Office of Admissions and Records</td>
<td></td>
</tr>
<tr>
<td>Owen, Sue</td>
<td>Executive Assistant/Interpreter Division of Deaf Studies and Special Services</td>
<td></td>
</tr>
<tr>
<td>Panales, David</td>
<td>Bookstore Operations Coordinator Ohlone College Bookstore</td>
<td></td>
</tr>
<tr>
<td>Pauli, William</td>
<td>Computer Hardware and Software Technician I Information Technology</td>
<td></td>
</tr>
<tr>
<td>Parker, Jennifer</td>
<td>Administrative Secretary I Facilities</td>
<td></td>
</tr>
<tr>
<td>Parker, Megan</td>
<td>Executive Assistant Division of Health and Exercise Sciences</td>
<td></td>
</tr>
<tr>
<td>Payne, Donna</td>
<td>Accounting Tech IV, Accounts Receivable Lead Business Services</td>
<td></td>
</tr>
<tr>
<td>Pheeles, Johari</td>
<td>Foundation Coordinator Ohlone College Foundation</td>
<td></td>
</tr>
<tr>
<td>Peralta, Benedick</td>
<td>Public Safety Officer Campus Police</td>
<td></td>
</tr>
<tr>
<td>Perez, Cynthia</td>
<td>Staff Interpreter I Division of Deaf Studies and Special Services</td>
<td></td>
</tr>
<tr>
<td>Pintello, Stephanie</td>
<td>Staff Interpreter I Division of Deaf Studies and Special Services</td>
<td></td>
</tr>
<tr>
<td>Quijas, Janet</td>
<td>Senior Office Assistant Student Health Center</td>
<td></td>
</tr>
<tr>
<td>Richard, Josephina</td>
<td>Custodian Facilities</td>
<td></td>
</tr>
<tr>
<td>Rodgers, April</td>
<td>Staff Interpreter I Division of Deaf Studies and Special Services</td>
<td></td>
</tr>
<tr>
<td>Rollins, Delphine</td>
<td>Desktop Support Technician I Information Technology</td>
<td></td>
</tr>
<tr>
<td>Schoen, Shadia</td>
<td>Job Developer One-Stop Career Center</td>
<td></td>
</tr>
<tr>
<td>Schutz, David</td>
<td>Automotive Service Technician Facilities</td>
<td></td>
</tr>
<tr>
<td>Schutz, Lamon</td>
<td>Building Trades/Maintenance Plumber Facilities</td>
<td></td>
</tr>
<tr>
<td>Serran, JoAnne</td>
<td>Executive Assistant Division of Health and Exercise Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Sharma, Jaya
- Office Assistant
- Office of Admissions and Records

Silva, Michael
- Security Officer II
- Campus Police

Smith, Antonia
- Administrative Secretary I
- One-Stop Career Center

Steffen, Susan
- Executive Assistant Counseling

Ta, Dangto
- Instructional Assistant, Math Lab Division of Math, Science, and Technology

Taffee, Gloria
- Career Center Case Manager
- One-Stop Career Center

Thornton, Stephen
- Network Support Tech II Information Technology

Tran, Huy
- Instructional Assistant, Biology Division of Math, Science, and Technology

Triplett, Mike
- Customer Support Coordinator Information Technology

van Noord, Mary
- Job Developer One-Stop Career Center

Washington, Spencer
- Student Services Assistant Office of Financial Aid

Webb, Tiffany
- Systems and Applications Administrator Information Technology

Wheeler, Amanda
- Student Services Assistant Counseling

Whitehouse, Jacquelyn
- Instructional Assistant, Music Division of Fine Arts, Business, and Broadcasting

Wood, David
- Instructional Assistant, English Division of Language Arts, Library, and Social Sciences

Zale, Zoumi
- Desktop Support Tech I Information Technology

Zeng, Yanni
- Bilingual Career Center Assistant One-Stop Career Center

Washington, Spencer
- Student Services Assistant Office of Financial Aid

Webb, Tiffany
- Systems and Applications Administrator Information Technology

Wheeler, Amanda
- Student Services Assistant Counseling

Whitehouse, Jacquelyn
- Instructional Assistant, Music Division of Fine Arts, Business, and Broadcasting

Wood, David
- Instructional Assistant, English Division of Language Arts, Library, and Social Sciences

Zale, Zoumi
- Desktop Support Tech I Information Technology

Zeng, Yanni
- Bilingual Career Center Assistant One-Stop Career Center
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.

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 46).

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 followup 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 prior to enrollment and therefore does not meet residency requirements.

Parttime 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-188, 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.

Quarter: A subdivision of the academic year consisting of four terms (fall, winter, spring, and summer quarters). To convert quarter units to semester 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 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 student’s 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.

WorkStudy: A program of federal aid that provides funds for student jobs on campus.
Index

Academic Calendar ...........................................6
Academic Dishonesty and its Consequences .......199
Academic Division Information .........................96
Academic Probation .........................................28
Academic Programs ...........................................47
Academic Progress - Student Responsibilities ....34
Academic Regulations ......................................28
Academic Renewal ..........................................29
Academic Standing ..........................................28
Accreditation ..................................................9
Accounting (BA, See Business Administration) Courses ..................115
Adding Classes .............................................25
Administration (District) .................................205
Administration of Justice (AJ) Courses ..............97
Admissions and Records ..................................13, 22
Advanced Placement (AP) Credit ......................32
Advisory Committees .....................................89
Advisory Courses ..........................................94
Air Force (AF) Courses ...................................98
Alcohol and Drug Abuse Policies .....................200
Alien Health (AH) Courses .............................99
American Sign Language (ASL) .............100
Anthropology (ANTH) Courses ......................102
Application for Admission .............................22
Arabic (ARBC) Courses ................................103
Art (ART) Courses .........................................103
Associate Degrees: General Majors ..........37, 49
Associate Degrees: Transfer Majors ..........37, 49
Associate of Arts/Science Degree .............37
Astronomy (ASTR) Courses ..........................109
Athletics .....................................................13
Attendance ..................................................34
Auditing ........................................................31
Authority for Law Enforcement ..................202
Basic Skills Classes ......................................33
Biology (BIOL) Courses ................................110
Biotechnology (BIOT) Courses ........................111
Board of Trustees .........................................12, 205
Bookstore ...................................................13
Broadcasting (BRDC) Courses ........................113
Business Administration (BA) Courses ..........115
Business Supervision/Management (BSM) Courses .............117
Cafeteria and Vending Services ......................14
California Articulation Number (CAN) ..........95
CalWORKs Program ....................................17
Campus Activities ........................................14
Campus Police/Safety and Security Services ....5, 202
CARE ..........................................................17
Carnegie Unit ...............................................31
Catalog Rights Policy ....................................33
Certificate of Achievement .........................40, 56
Certificate of Completion .............................40, 71
Change of Grade ...........................................31
Chemistry (CHEM) Courses .........................118
Chicano Studies (CHS) Courses .................119
Chinese (CHIN) Courses ...............................119
Civil Rights Complaints ................................200
Class Schedule .............................................24
Classifications, Student .................................29
Classified Staff .............................................210
Clear Standing ..............................................28
Clubs and Organizations .................................14
College Personnel ..........................................204
Community College System ..........................9
Community Contributors ...............................17
Community Education ....................................12
Complaint Process ........................................200
Complaints ...............................................199
Academic .....................................................200
Civil Rights .................................................200
General Student ..........................................200
Section 504/ADA ........................................200
Sex Discrimination ......................................200
Sexual Harassment ......................................200
Title IX ......................................................200
Computer Applications and Occupational Technology (CAOT) Courses ..........120
Computers, Networks, and Emerging Technology (CNET) Courses ..........122
Computer Science (CS) Courses .....................128
Concurrent Enrollment Programs ..................143
Consumer and Family Sciences (CFS) Courses ....133
Conversion to Quarter Units .........................31
Conversion from Quarter Units .....................31
Co-Curricular Activities ..................................15
Cooperative Admissions Programs ................22
Cooperative Agencies Resources for Education (CARE) Program .............17
Counseling Department ..................................15
Course Descriptions .....................................94
Course Grading Policy ....................................94
Course Requisites .........................................94
Credit by Examination ..................................31
Credit for Military and Non-college Courses/ Training .........................................................32
Credit/No-Credit, Optional Letter Grade Courses .......30
CrossRegistration ..........................................25
CSU Campuses ...........................................41
Curriculum Guides .......................................48
Deaf Center .................................................11
Deaf (DEAF) Courses for the .........................134
Deaf Preparatory Program (DEAF) Courses ........134
Degree Information .......................................55
Directory Information ....................................33
Disabled Students Programs and Services ..........16
Disciplinary Action .......................................201
Dismissal from Class or College .....................28
Academic .....................................................28
Disciplinary ..................................................29
Progress .....................................................28
Dropping Classes ........................................25
Due Process Procedures ................................201
Early Childhood Studies (ECS) Courses .............137
Education (EDUC) Courses .........................141
Emeritus Faculty and Staff ............................205
Engineering (ENGI) Courses .........................141
Enrollment Fee ............................................26
English (ENGL) Courses ..............................142
English as a Second Language (ESL) Courses ....145

2006-2007 OHLONE COLLEGE CATALOG

Index