Students in the Puente Project graduate from Ohlone. Puente is a program designed to increase the number of educationally underrepresented students who enroll in four-year colleges and earn college degrees. 

Photo courtesy of College Advancement.
TABLE OF CONTENTS

Academic Calendar .......................... 5
Vision, Mission, Values, and Goals ........ 6
Chapter One – Welcome to Ohlone
  Good News about Ohlone! .................. 7
  Accreditation ............................. 9
  The Community College System .......... 9
  Important Facts about Ohlone .......... 10
  History of Ohlone .......................... 10
  The Ohlone Campuses ...................... 10
  Ohlone Community College District
    Board of Trustees ......................... 13
  Ohlone College Foundation ............... 13
  Revision of Regulations .................. 13

Chapter Two – Admission and Registration
  Admission Information .................... 14
  Open Enrollment Policy ................... 14
  Matriculation ........................... 14
  Application for Admission .............. 15
  Enrollment Process ....................... 17
  Placement Testing Center ................. 19
  New Student Orientation ................. 20
  Registration Information ................. 20
  WebAdvisor .............................. 21

Chapter Three – Services for Students
  Admissions and Records .................. 24
  Student Services Curriculum .......... 25
  Athletics ................................ 26
  Bookstore ............................... 26
  Campus Activities ....................... 26
  Campus Police/Safety and
    Security Services ..................... 27
  Career Services ......................... 28
  Counseling Department .................. 28
  Disabled Students Programs
    and Services (DSPS) .................. 29
  Extended Opportunity Programs
    and Services (EOPS) ................. 29
  Financial Aid ........................... 30
  International Programs and Services .. 30
  Student Health Center .................. 32
  Transfer Center .......................... 32
  Tutoring Services ....................... 33
  Veterans’ Educational Benefits ......... 33

Chapter Four – Fees and Refunds
  Fees ..................................... 34
  2009-2010 Fees ......................... 35
  Payment ................................ 36
  Refunds ................................ 36
Chapter Five – Academic Regulations
Academic Standing ........................................... 37
Student Classifications ........................................... 39
Student Load/Overload Guidelines ........................ 39
Grades ................................................................. 39
Repetition of Courses ........................................ 40
Unit of Credit Definitions ........................................ 40
Credit by Examination ........................................ 41
Basic Skills Classes ........................................... 41
Advanced Placement Credit .................................. 42
Final Examinations ............................................ 43
Catalog Rights Policy ........................................ 43
Family Educational Rights and Privacy Act .............. 43
Student Responsibilities .................................... 43

Chapter Six – Degree, Certificate, and Transfer Information
Transfer Credit from Another Institution ................. 44
Steps in Choosing Your Ohlone College Academic Program ........................................ 45
Associate of Arts and Associate of Science Degrees ........................................ 46
Associate Degree: Graduation Information .............. 46
General Education ............................................ 46
Certificate Programs ......................................... 50
Transfer to Four-Year Institutions ......................... 50
Intersegmental General Education Transfer Curriculum (IGETC) ........................................ 52
Transfer Programs ............................................ 52
General Education: Plan A ................................... 53
General Education: Plan B ................................ 54
General Education: Plan C ................................ 55
Academic Programs ........................................ 56

Chapter Seven – Curriculum Guides
Associate Degrees and Certificates of Achievement ........................................ 58
Certificates of Accomplishment ........................................ 93

Chapter Eight – Advisory Committees ........................................ 110

Chapter Nine – Announcement of Courses
How to Read Course Descriptions ........................................ 115
Course Requisites ............................................ 115
Accepted for Credit ........................................... 116
Course Grading Policy ........................................ 116
Multi-Departmental Courses .................................... 116
Academic Division Information .................................... 116
Student Learning Outcomes by Discipline/Program ........................................ 118
Course Listings ............................................. 125

Chapter Ten – Policies and Procedures
Academic Freedom .......................................... 247
Equal Educational and Employment Opportunity .......... 248
Photo courtesy of Julie Polk.

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

Odhonde 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. Odhone 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.

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

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

Odhonde students participate in the March in March rally in Sacramento in support of higher education.

Photo courtesy of Jackie McCulley.
ACADEMIC CALENDAR 2009-2010

Fall Semester 2009

August 31  Instruction begins
September 4  Last day to add full-term class without instructor’s signature
September 5-7  Holiday – Labor Day (weekend classes do not meet)
September 8  Last day to drop full-term class and be eligible for a refund
September 13*  Last day to add full-term class with instructor’s signature
September 13*  Last day to drop full-term class without a W grade
September 13*  Last day to submit a petition to audit full-term class
September 14  Census Day
September 25  Last day to petition to complete class on a pass/no pass basis
October 9  Last day to apply for Fall 2009 graduation or Certificate of Achievement
November 11  Holiday – Veterans’ Day
November 19  Last day to drop full-term class with a W grade
November 26-29  Holiday – Thanksgiving (weekend classes do not meet)
December 11  Last day of instruction
December 12-18  Final Exam Period
December 19-January 31  Semester Break

Students cannot add full-term classes online via WebAdvisor after the last day to add without the instructor’s signature. After September 4 students can only add full-term classes by submitting an Add/Drop Form with the instructor’s signature to Admissions and Records on the Fremont campus or the Student Services Center on the Newark campus.

Spring Semester 2010

January 18  Holiday – Martin Luther King Jr. Day
February 1  Instruction begins
February 5  Last day to add full-term class without instructor’s signature
February 9  Last day to drop full-term class and be eligible for a refund
February 12-15  Holiday – Presidents’ Weekend (weekend classes do not meet)
February 14*  Last day to add full-term class with instructor’s signature
February 14*  Last day to drop full-term class without a W grade
February 14*  Last day to submit a petition to audit full-term class
February 15  Census Day
February 26  Last day to petition to complete class on a pass/no pass basis
March 12  Last day to apply for Spring 2010 graduation or Certificate of Achievement
March 29-April 4  Spring Break
April 30  Last day to drop full-term class with a W grade
May 21  Last day of instruction
May 22-28  Final Exam Period
May 27  Commencement
May 31  Holiday – Memorial Day

Students cannot add full-term classes online via WebAdvisor after the last day to add without the instructor’s signature. After February 5 students can only add full-term classes by submitting an Add/Drop Form with the instructor’s signature to Admissions and Records on the Fremont campus or the Student Services Center on the Newark campus.

Summer Term 2010

June 21  Instruction begins
July 5  Holiday – Independence Day
July 29  Instruction ends

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

Dates are subject to change and are accurate at the time of catalog publication. Students should check the Academic Calendar in the current Class Schedule or on the Admissions and Records Web page for dates for the specific term.

2009-2010 OHLONE COLLEGE CATALOG
VISION, MISSION, VALUES, AND GOALS
2004-2010

VISION STATEMENT

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

MISSION STATEMENT

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

CORE VALUES

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

COLLEGE GOALS

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

Adopted by the Board of Trustees 6/9/04
Revised to include Goal #6: 7/12/06
GOOD NEWS ABOUT OHLONE!

At Ohlone we are proud of the accomplishments made by our dedicated students, faculty, staff, and alumni. We are pleased to share several of the highlights of the past year at Ohlone, which are a mere sampling of the great things that are going on at Ohlone.

Student Accomplishments

After taking first place in Persuasive Speaking at the Northern California Forensics Association Regional Competition held at Chico State University, Forensics Team member Andie Morhous represented Ohlone and the Northern California Forensics Association at the 140th annual Interstate Oratory Association Tournament at the University of Mississippi in Oxford in April 2009. Andie is the first community college student to represent our region in over two years; usually a student from a 4-year institution has won!

In May 2009 the Ohlone Mathematics Team took first place at the 41st Annual Monterey County Mathletics competition, and an Ohlone student took first place in the Calculus competition. For several years in a row, Ohlone has done extremely well at this competition – in fact, Ohlone has become the team to beat!

The Ohlone Wind Orchestra, an auditioned evening band made of professionals, semi-professionals, and near-professionals, was invited to the California Wind Festival in Fresno in March 2009. In Spring 2007 the band performed at the prestigious national convention of the American Bandmasters Association held in San Luis Obispo. The band recently released a CD on the national record label, Summit Records, which was reviewed favorably on www.AllAboutJazz.com.

Welcome to Ohlone! We are honored that you have chosen to pursue your education at Ohlone College and are excited to have this opportunity to share our campuses, programs, and services with you. We hope that you will take advantage of the many programs and services available at Ohlone.
Alumni Accomplishments

Ohlone Broadcasting alumni are not only heard on the air, but are programming, producing, managing, and marketing radio as well. There are at least ten Ohlone alumni in key positions at radio stations in San Jose, Los Angeles, San Francisco, and one alumni working in syndication. One of our former radio students, Emmy® Award winning Brett Larson, is the most watched and listened to technology and environmental reporter in the nation.

Faculty Accomplishments

Rick Arellano and Elisa Webb, Ohlone faculty, realized that by using their own department resources they and the Newark Senior Center could establish a partnership. This was a great opportunity for the Computer Applications and Occupational Technology Department to offer computer applications classes that were relevant to the seniors’ needs as well as an opportunity to bring in department resources they and the Newark Senior Center could establish a partnership. This was a great opportunity for the Computer Applications and Occupational Technology Department to offer computer applications classes that were relevant to the seniors’ needs as well as an opportunity to bring in student interns to do some work at the senior center. The class provided instruction to seniors on how to use tools such as the Ipod, Kindle, Sony Reader, and Internet blogs. Ohlone is delighted to be part of this project. This project allows professors to volunteer their time to teach the course, Ohlone maintains its ever evolving and innovative outreach programs to the community, and the Senior Center can offer more targeted courses to their audiences. Local enthusiasm has trickled over into neighboring city of Fremont; the Fremont Senior Center has also approached Ohlone to start a similar project there.

English professor Perri Gallagher spoke at the Annual Conference on College Composition and Communication (CCCC) in San Francisco in March 2009. Professor Gallagher’s presentation was titled “More Than Poetic Examination: Metaphors That Structure Online Instructor Views.” Each year the convention draws college faculty members from around the world to gain knowledge of best practices in the field.

Adjunct faculty member Lawrence Iriarte’s 22-minute film, which used Ohlone-trained technicians and actors and crew members, as well as some Ohlone locations, has been accepted for film festivals in Sacramento, Seattle, and Canada. The film’s title is “One Way Ticket Please.”

Professors Nancy Pauliukonis and William Wong, full-time faculty members in the Deaf Studies Department, were invited to speak at the National Tsukuba University of Technology (NTUT) in Japan in January 2009. The purpose for their visit was to work with university faculty who are testing methods of providing access to instruction in English for Deaf international students.

Sergio Suarez, part-time dance instructor, organized “All the Way Live” at Ohlone during Fall 2008. The breakdancing festival has now been exported successfully to the Philippines, where Sergio goes once or twice a year to work with disadvantaged youth. The Zhejiang Arts Academy in Hangzhou, China, sponsored Sergio to be a guest instructor for several weeks last year to teach their students about contemporary American dance styles. “All the Way Live” will make an appearance at Ohlone again in 2010.

Academics

Hundreds of high school students were at Ohlone in April 2009 for the annual High School Theatre Festival. With festival activities and other developments, Ohlone is increasingly seen as a regional training and education resource for Technical Theatre in the San Francisco Bay Area.

Ohlone has received approval from the California Community College Chancellor’s Office to develop a career pathway program in the area of Geographic Information Systems (GIS)/Global Positioning System (GPS). The initial high school partners are Newark Memorial High School and the ROP. Our proposal was the highest ranked proposal.

Ohlone is currently working with Irvington High School in developing a Science, Health, and Physical Education (SHAPE) career pathway program as part of a Partnership Academy Grant awarded to Irvington High School two years ago. Recently Irvington High School has been approved for two new Academies in New Media Arts and Information Technology. Kennedy High School has received an Academy Grant for Green Technologies. Ohlone is an active partner in all of these projects.

Ohlone had a successful launch of the College for a Day Career Exploration program at the Newark Center for Health Sciences and Technology. Cesar Chavez Middle School and Newark Junior High School 8th grade students participated in Chemistry, Biotechnology, Solar-Technology, Nursing Simulation Lab, Respiratory Therapy, Physical Therapy, Environmental Studies, and Digital Media sessions. This activity was funded by the Ohlone Career Exploration Grant under the direction of Dr. Ron Quinta, Ohlone’s Dean of Science, Technology, and Engineering.

Athletics

2008-2009 was an amazing year for Ohlone Athletics. Ohlone had twelve sports offered in 2008-2009; seven of those sports went on to post season play. Overall Ohlone earned six Conference Championships this year, an unprecedented number for a community college district!

The Men’s Baseball Team won the Coast Conference Championship with 35 wins; this was the highest win record ever for Ohlone men’s baseball. Thirteen baseball team members were selected to the All-Conference team and four more baseball players were recognized as All-Conference Honorable Mention; these honors are the most that the Ohlone baseball team has ever received. Head Coach Jordon Twogood was voted Pacific Division Coach of the Year.

The Men’s Basketball Team were Coast Conference Champions for the fourth time since 2000. They made it to the second round of playoffs. Individual players earned all-state and all-conference honors, including co-Most Valuable Player.

The Women’s Basketball Team were Coast Conference Champions this year. They had a perfect conference record of 12-0 and made it to the second round of playoffs. Many players were honored, including honors for Conference Most Valuable Player.

The Women’s Soccer Team qualified for the playoffs. Four team members made First Team All-Conference and Ohlone had the Conference Goal Keeper of the year.

The Women’s Softball Team made it the State Championships for the first time ever! The team won its seventh consecutive title as Coast Conference Champions. They earned the #1 seed in Northern California and first place in the regional playoffs. In 2009 softball players earned honors including Pitcher of the Year, First Team All-North, First Team All-Conference, and Second Team All-Conference.

The Men’s Swim Team was the Coast Conference Champions for the first time in the history of Ohlone.

The Men’s Tennis Team produced the Coast Conference Champion player.

The Men’s Water Polo team had a member voted All Nor Cal, one vote away from All American.
Campus Events

Earth Week was held in April 2009 and was very successful. Lead by Robin Kurotori, Associate Professor in Health/Fitness and Wellness, students and staff pulled 500 pounds of weeds on the Newark campus. Jeff Watamabe, Assistant Professor in Biology, also lead a Mowry Creek cleanup where they found lots of interesting paraphernalia, such as the lower quarter of an animal jaw, children’s toys, a tomato cage, all types of clothing, and lots of paper.

Our 4th annual Raza Day took place at the Newark Center for Health and Sciences on April 24, 2009. Raza Day is a district-wide recruitment event to encourage Latino high school students to attend Ohlone. Over 200 juniors and seniors from local high schools attended Raza Day. Student Services faculty and staff set up tables in the Newark Center lobby to educate students about the various services available at Ohlone.

Saturday, May 2, 2009 was Ohlone’s first annual Freshmen Connection Day. More than 300 high school seniors and about 280 parents attended this “one stop” orientation to college. Counselors offered workshops on the transfer process, money management, financial aid, and tips for succeeding in college. Instructional faculty staffed information tables during lunch to talk with students about their departments. Music faculty performed during lunch and KOHL Radio broadcasted live outside Hyman Hall.

International Education

For the Spring 2009 semester Ohlone had 63 students enrolled in the English Language Institute (ELI). The ELI is a program for students who wish to study English full-time. The ELI began in Spring 2007 with only 12 students, so the program has grown rapidly in only two years. The primary countries of these students were China and Vietnam, with a few students from Korea, Japan, and Taiwan and single students from France, Brazil, and Congo.

Ohlone has approximately 260 international students, from about 34 countries. China is the main source of F-1 Visa-holding international students and Vietnam is the second source. The increase in international student enrollment has far exceed projections and reached the three year goal for the program in just over one year.

Awards for the Newark Center for Health Sciences and Technology

Ohlone College has again been awarded special honors as a model of Sustainable Design and Construction for its LEED Platinum building, the Ohlone College Newark Center for Health Sciences and Technology. Acterra, an 18-year-old Bay Area environmental organization, selected the Ohlone College Newark Center as a model of the Sustainable Built Environment award for the College’s innovations in energy efficiency and green building. The Newark Center for Technology and Health Sciences at Ohlone Community College project (submitted by Perkins+Will) has been selected to win a Green Building of America Award and will be featured in the upcoming Northwest Real Estate & Construction Review-Green Success Stories Edition. The publication is highly utilized by State, County, and City Economic Development groups to highlight the vitality of their respective communities.

Student Services Center

The new Student Services Center will open for the 2009-2010 academic year. The Student Services Center will consolidate most student services into one building, providing a “one-stop shop” where students can get assistance with registration, financial aid, health care, and other student services. Most Student Services offices are relocating to the Student Services Center, including Admissions and Records; ASOC; Counseling; Extended Opportunity Programs and Services; Disabled Students Programs and Services; Financial Aid; Placement Testing; and the Student Health Center, among others.

The Student Services Center was designed to improve pedestrian accessibility on the Ohlone College Fremont campus; connect the Student Services programs with the Deaf Studies/Special Services programs; complement and harmonize with the architectural style of the existing Ohlone College Fremont Campus buildings; and achieve LEED Certification.

The new Student Services Center is located on the south side of the Fremont campus. The Student Services Center replaces the original Building 7 and is located between Buildings 6 and 8 and near Parking Lots O and P.

ACCREDITATION

Ohlone College is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) of the Western Association of Schools and Colleges, 10 Commercial Blvd., Suite 204, Novato, CA 94949, (415) 506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

THE COMMUNITY COLLEGE SYSTEM

The first community college in the United States, Joliet Junior College in Illinois, was founded in 1901, making 2001 the 100th anniversary of the community college system. According to the American Association of Community Colleges, as of 2008 there were more than 1195 community colleges in the United States, with 987 of those institutions being publicly controlled. There are 11.5 million students attending community colleges in the United States, representing 46% of all undergraduate students in the United States and 41% of all first-time freshmen in the United States. Annually community colleges award more than 555,000 associate degrees and nearly 295,000 certificates.

The California Community College system of two-year public institutions is composed of 110 colleges statewide organized into 72 districts. The California Community College system served more than 2.6 million students during the 2006-2007 academic year and represents the largest system of higher education in the world.

Ohlone College is a part of the Ohlone Community College District with campuses in Fremont and Newark, as well as the virtual campus of online course offerings. During 2008-2009 the Ohlone Community College District served six high schools, two continuation high schools, two adult schools, and the Regional Occupational Programs, and more than 18,000 students. Ohlone is proud of its role in the community college system – both in the United States and California – and honored to be able to provide its students with a quality educational experience.

Did you know???

75% of all Ohlone student athletes transfer to a four year college or university!
IMPORTANT FACTS ABOUT OHLONE

- Ohlone enrolls 18,000 students per year at our Fremont and Newark campuses and online.
- Ohlone offers 190 degrees and academic programs.
- Every year more than 500 students transfer to four-year colleges and universities.
- About 500 students graduate with degrees or earn vocational certificates every year.
- Ohlone College employs approximately 450 part-time and full-time faculty and 235 support and management personnel.

HISTORY OF OHLONE

Established in 1965, Ohlone College serves the cities of Fremont and Newark and is located in the southeast area of the San Francisco Bay Area, California. Ohlone College is part of the Ohlone Community College District. The Fremont campus is located on Mission Boulevard off Highway 680 on a beautiful 534-acre hillside site just south of historical Mission San Jose. The Newark campus is located on Cherry Street west of Highway 880 on a 31-acre site adjacent to the San Francisco Bay.

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

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

Ohlone Community College District opened its doors in September 1967. 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 2006-2007 academic year marked the 40th anniversary of serving the Tri-cities community with higher education opportunities.

THE OHLONE CAMPUSES

Fremont Campus

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

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

Additions to the Fremont campus are the fine and performing arts center, the Gary Soren Smith Center for the Fine and Performing Arts (which opened in 1995); the business and technology center, the Morris and Alvirda Hyman Hall (2002); and the Student Services Center (2009) located at the southern end of the campus where Building 7 was formerly located.

Newark Campus

Early in its history Ohlone began offering satellite classes in Newark to better serve students at the north and west ends of the district. In 2001 voters approved a bond committing $100 million to building a campus site in Newark. The groundbreaking took place in May 2005 and the new facility, known as the Ohlone College Newark Center for Health Sciences and Technology, opened in January 2008. The building actually consists of five buildings merged into one for greater energy efficiency and to conserve land use and cost. The Newark Center focuses on cutting edge vocational programs including health sciences, biotechnology, and environmental studies.

Learning Resources Center (LRC)/Library

The Learning Resources Center (LRC) has two locations, one on each campus. The Fremont campus LRC is located on the third and fourth floors of Building 1; the Newark campus LRC is located on the first floor of wing 1 in Room 1124. The Library’s print and media collections are housed on the Fremont campus and are accessible to Newark campus students and faculty through an inter-campus loan system. Registered students may access the Library’s many electronic resources, including electronic books and periodicals, through the Library’s Website at http://www2.ohlone.edu/org/library/. Both campus LRCs provide group and individual study space, access to personal computers, and wireless Internet service.

The Media Center, located at the Circulation Desk on the Fremont campus, houses a wide array of media. Faculty may reserve instructional videos and computer equipment for classroom use. Media equipment for viewing and listening to library materials is available at both the Fremont and Newark LRCs.

The Student Technology Center, located in Hyman Hall on the Fremont campus, offers peer tutoring for students, access to personal computers, and wireless Internet service. There are two specially equipped workstations for students with disabilities.
Student Center
The Hochler Student Center in Building 5 on the Fremont campus houses the Ohlone College Bookstore; Ohlone College Deaf Center; Cafeteria; facilities for The Monitor, the Ohlone College student newspaper; classrooms; and serves as the hub of student activities. Building 5 was dedicated to the memory of the Ohlone Trustee Abraham (Abe) Hochler on June 17, 1976. Mr. Hochler had served the Fremont-Newark Community College District as a trustee from July 1, 1966 until April 2, 1976, and is remembered for his exceptional leadership in development and construction of the College. He was a staunch supporter of students during his years of service to the District.

Gary Soren Smith Center for the Fine and Performing Arts
The Gary Soren Smith Center for the Fine and Performing Arts was built on the Fremont campus in 1995 to serve student and community needs for a professional performing arts facility. An impressive architectural creation, the Gary Soren Smith Center for the Fine and Performing Arts boasts state-of-the-art facilities in the areas of radio and television production and broadcast, a dance studio, stages for theatre productions and music performance, as well as a professional art gallery.

The Smith Center has three stages: the Jackson Theatre, a 400-seat proscenium theatre; the NUMMII Theatre, an intimate black box stage with adjustable seating; and the Ohlone College Outdoor Amphitheatre with a breathtaking view of the Bay Area. The Louie-Meager Art Gallery displays a wide range of professional art exhibits from Skateboard Art to Kinetic Neon Sculpture. The Television facilities provide staging, shooting, post-production, and broadcast of news and entertainment programming. KOHL Radio is a popular Bay Area top-40 station broadcasting on 89.3 FM.

Ohlone College has one of the largest and most comprehensive program 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.

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 large Deaf and ASL student populations at Ohlone allow for a wide variety of extra curricular activities, including special interest clubs on campus. There are many activities for students within the local and Bay Area Deaf communities as well. The close proximity of the Ohlone College Center for Deaf Studies to the California School for the Deaf in Fremont provides unique collaborative opportunities for Deaf, Hard of Hearing, and hearing students.

The program is staffed by full-time and part-time instructors, all educated and certified in the area of education of Deaf and Hard of Hearing people. Counselors provide assistance with registration; personal, academic, and social concerns; and educational, vocational, and career guidance. Counselors are available to assist students with any of these educational plans. The Center for Deaf Studies is located in Building 5, third floor on the Fremont campus (www.ohlone.edu/instr/deafstudies/). Registration information and appointments with a counselor may be obtained by calling (510) 659-7314 (TTY), (866) 680-7626 (VP), or (510) 659-6269 (V).

Morris and Alvirda Hym an Center for Business and Technology
The mission of the Morris and Alvirda Hym an Center for Business and Technology on the Fremont campus is to provide quality, cost-effective education and training for the fields of business, computer science, office technology, and software applications. Hym an Hall serves to advance economic development in the greater Fremont-Newark region. Hym an 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.
3. Serve as a center for continuing education (upgrading current employees of businesses, industry, and government).

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

Hym an Hall is a vital economic development asset in the Fremont-Newark region, providing benefits to the entire community. Hym an 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, Hym an 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.

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 large Deaf and ASL student populations at Ohlone allow for a wide variety of extra curricular activities, including special interest clubs on campus. There are many activities for students within the local and Bay Area Deaf communities as well. The close proximity of the Ohlone College Center for Deaf Studies to the California School for the Deaf in Fremont provides unique collaborative opportunities for Deaf, Hard of Hearing, and hearing students.

The program is staffed by full-time and part-time instructors, all educated and certified in the area of education of Deaf and Hard of Hearing people. Counselors provide assistance with registration; personal, academic, and social concerns; and educational, vocational, and career guidance. Counselors are available to assist students with any of these educational plans. The Center for Deaf Studies is located in Building 5, third floor on the Fremont campus (www.ohlone.edu/instr/deafstudies/). Registration information and appointments with a counselor may be obtained by calling (510) 659-7314 (TTY), (866) 680-7626 (VP), 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 College of Professional Studies and Outreach at Gallaudet University.

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

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

**Fremont Campus Tours**

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

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

**Tri-Cities One-Stop Career Center**

39399 Cherry Street
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 high-speed 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

A monthly calendar of One-Stop events is posted at http://www.tricities-onestop.com/calendar.htm.

**Community Education**

Community Education courses are designed to meet the not-for-credit education needs of individuals in the Tri-Cities area. No tests or exams are required. Classes provide skills, knowledge, and hands-on activities 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. The Ohlone for Kids program has special classes designed for students going into grades 4-11. Students practice critical thinking skills and enjoy a variety of activities including arts, computers, math, reading, and writing.

The Community Education program is self-supporting and receives no taxpayer funding. Visit the Community Education Web site at http://commed.ohlone.edu or call (510) 742-2304 for information and registration.

**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 has overseen a variety of summer programs offered by the Art, English, Language Arts, Music, and Theatre and Dance departments. Students have studied art in Italy, mastered French in Paris, attended theatre in London, performed concerts throughout Europe, and spent semesters abroad in Stratford-Upon Avon and Cambridge, England and Sydney, Australia. Future travel may include China as well as other interesting destinations. In Fall 2009 students will have the opportunity to study in Sydney, Australia with English Professor Mark Brosamer. 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.
OHLOLE COMMUNITY COLLEGE DISTRICT BOARD OF TRUSTEES

The Ohlone Community College District serves the cities of Fremont, Newark, and a portion of Union City, 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 appoints the District President/Superintendent and establishes policies to assure the quality, integrity, and effectiveness of the programs and services and the financial stability of the District. Information about the Board of Trustees activities can be found on their Web page at http://www.ohlone.edu/org/board.

OHLOLE COLLEGE FOUNDATION

The Ohlone College Foundation exists to broaden educational opportunities for students. One important function is to provide scholarships to those who need financial assistance. The entire Ohlone community benefits from the Foundation’s support in provision of equipment, furnishings, and community-focused programs at the Fremont and Newark campuses. The Foundation receives the bulk of its financial support from members of the private and business communities; donations, endowments, and other gifts are an important source of funding for the College and its students. Of course, each gift indirectly benefits the community at large, as well.

Programs With a Purpose, Gifts With Meaning

To raise funds for its endeavors, the Foundation conducts a range of programs. During 2009-2010 the primary focus is on the Capital Campaign. Thanks to a generous matching grant by a local foundation, all capital funds raised to furnish and equip the Newark Center for Health Sciences and Technology will be matched dollar-for-dollar up to $2.5 million. The Foundation launched a “Buy a Brick” program in Fall 2007 to augment corporate fundraising efforts.

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; for example, donations are made to honor an individual (living or deceased) or 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 of our students. To learn more about the Foundation or how to help, please call (510) 659-6020.

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.

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.
ADMISSION INFORMATION

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

OPEN ENROLLMENT POLICY

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

MATRICULATION

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

The Counseling staff assists students with exemption requests.

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

(continued on next page)
Ohlone College expects students to:
- Declare an educational goal;
- Attend classes;
- Complete homework assignments;
- Meet with a counselor to discuss available choices;
- Seek support services as needed;
- Strive to make progress toward their goals.

**APPLICATION FOR ADMISSION**

Students may apply online via WebAdvisor at https://webadvisor.ohlone.edu. Applying online via WebAdvisor is the fastest way to apply. Application forms are also available online via the Ohlone College Web page at http://www.ohlone.edu/org/admissions/forms/applforadmission.pdf, inside each term's Class Schedule, from the Office of Admissions and Records on the Fremont campus, and from the Student Services Center on the Newark campus. To be able to register for classes all new and former students in the following categories must submit an application for admission:
- New students entering Ohlone College for the first time;
- Former students (students who did not attend Ohlone College during the previous Fall or Spring semester);
- All new or returning international students;
- K-12 students seeking special admission.

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

**Transcripts for Admission**

The following students are expected to submit official transcripts from all previously attended institutions:
- Students enrolling in 7 or more units;
- Students enrolling in 6 units or less and working toward a degree or certificate;
- Applicants to the Registered Nursing, Physical Therapist Assistant, or Respiratory Therapy Programs;
- Veterans;
- International students;
- Students planning to transfer to a four year college or university;
- Students participating in intercollegiate sports.

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

**Programs Requiring Special Admission**

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

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

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

**Residency Information**

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

**International Student Admission**

“International student” is here defined as a student who possesses or wishes to obtain the F-1 Student Visa to study in the United States.

(continued on next page)
Ohlone College admits and serves a diverse community of international students. Ohlone’s International Programs and Services Office issues the Immigration Form I-20 to admitted international students. Students then use the Form I-20 to apply for an F-1 Student Visa at a U.S. Embassy or Consulate in their home country. Students currently studying on an F-1 Visa at another school in the United States must use the Form I-20 to apply for an F-1 Student Visa at a U.S. Embassy or Consulate in their home country. Students then use the Form I-20 to apply for an F-1 Student Visa at a U.S. Embassy or Consulate in their home country.

Students currently studying on an F-1 Visa at another school in the United States may apply to transfer to Ohlone College. International student application deadlines are May 31 for the Fall Semester and October 31 for the Spring Semester.

To be considered for admission, international students must submit a completed International Student Application form, and other required application documents, to the International Programs and Services Office. Please contact the International Programs and Services Office at (510) 659-6439 for an International Student Application or download the application at http://www.ohlone.edu/org/international/docs/internationalapplicationpacket.pdf.

Application requirements:
- A completed International Student Application form.
- A non-refundable $50 Application Fee.
- Proof of graduation from high school or the equivalent.
- Official bank documentation, in English, demonstrating the student’s or student’s financial guarantor’s ability to cover the student’s educational and living expenses for one year.
- A completed Financial Affidavit (part of the application form).
- The required minimum score on the Test of English as a Foreign Language (TOEFL). A score of 52 or higher on the Internet-based Test (iBT) or 470 on the Paper-based Test (PBT) is required. International English Language Testing System (IELTS) scores of 5.0 or higher can be accepted in lieu of the TOEFL.*
- Passport, Student Visa, current Form I-20, and I-94 (applicable to students who already have an F-1 Visa, are currently in the U.S., and who are applying to transfer to Ohlone College only).

*More information on alternative forms of English proficiency accepted may be found online at http://www.ohlone.edu/org/international/englishrequirements.html. Students may also wish to consider joining the Ohlone College English Language Institute (see below.)

Ohlone also offers the opportunity for Deaf international students to learn American Sign Language and engage in Ohlone College degree program studies. For more information, please visit http://www.ohlone.edu/inst/deafstudies/.

Full-time, F-1 Visa-holding students of Ohlone College are required to possess valid health insurance. Group health insurance coverage is provided, and a group health insurance fee in the amount of $286 per semester is assessed to all full-time F-1 Visa-holding international students of Ohlone College who are ineligible to opt-out of this insurance coverage. This fee is subject to change. Please contact the International Programs and Services Office at (510) 659-6439 for information regarding opt-out criteria.

For detailed information on International Admissions at Ohlone College visit http://www.ohlone.edu/org/international/. Please also refer to the International Programs and Services section of this catalog (page 30).

**Did you know??**

Ohlone has approximately 260 international students, coming from approximately 34 different countries. The majority of F-1 Visa-holding international students come from China, followed by Vietnam.

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**English Language Institute (ELI)**

International students who are not yet proficient enough in English to gain direct admission to an Ohlone College degree program may wish to first join the Ohlone College English Language Institute (ELI). The ELI is a full-time intensive English language program designed for non-native speakers of English who possess or wish to obtain the F-1 Student Visa. Students who apply to the ELI and who wish to later join a degree program may be conditionally admitted by Ohlone College. For more information visit http://www.ohlone.edu/org/international/eli.html and/or contact the Ohlone College International Programs and Services Office at (510) 659-6524.

**Special Student Admission – Kindergarten-12th Grade Students**

The term “special admission” applies to students who are currently enrolled in Kindergarten-12th grade. These students may enroll in Ohlone College courses that are UC/CSU transferable on a space available basis. PE and AHIL classes are not available for any K-12 student enrollment. K-12 students must also meet any and all course prerequisites to be eligible for enrollment; for courses in English and Math this usually requires the student taking an Ohlone Placement Test. Per Title 5 of the California Education Code K-12 coursework may not be used to waive college prerequisites. Parental and principal or school official approval is also required. K-12 students are exempt from paying the California Community College Enrollment Fee but are subject to the Electronic Access Fee, Health Services Fee, and the optional Student Activities Fee, unless all classes are off campus.

All K-12 students are required to submit a new application packet every term. Forms, directions, and timelines are available on the Ohlone Web site at http://www.ohlone.edu/org/admissions/k12admission.html.

**K-9th Grade Students**

Kindergarten-9th grade students may register only in a limited number of course offerings. The list of approved courses is available at http://www.ohlone.edu/org/admissions/k12admission.html and in the K-9 application packet. Students will be required to submit their completed application packet by a deadline several weeks before the start of the term. No applications for K-9 students will be accepted after the deadline posted for each term. This deadline is available on page 2 of the printed Class Schedule and online at http://www.ohlone.edu/org/admissions/k12admission.html. Early application is encouraged. The first day that admitted K-9 students will be able to register is the first day of the term.

**10th-12th Grade Students**

Students in 10th-12th grade are allowed to register for only CSU and UC transferable classes. These courses are identified in the printed Class Schedule. 10th-12th grade students will be able to register for classes approximately two weeks before the start of the term.
The Enrollment Process

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

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

**TAKE PLACEMENT TESTS**
(for ESL, English, and Math Prerequisites)
- Go to http://www.ohlone.edu/org/placement/ for information regarding placement tests and dates and times the Placement Testing Center is open.
- Take the required placement tests or clear all prerequisites for English and math with transcripts from previously attended institutions; see a counselor (Building 7, third floor on the Fremont campus or the Student Services Center on the Newark campus) for assistance with clearing prerequisites.
- Review Test Summary on WebAdvisor at https://webadvisor.ohlone.edu after completing required placement tests.
- See the Placement Testing Center Web site at www.ohlone.edu/org/placement for an explanation of placement test results.

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

**REGISTER FOR CLASSES**
- Make sure all holds are cleared and any outstanding balances paid before registering.
- Register for classes online via WebAdvisor (https://webadvisor.ohlone.edu).
  - **OR, if a class is filled**
  - Add to the waitlist and attend the first class session.
- Go to http://www2.ohlone.edu/instr/onlineeducation/ for information and instructions for online classes.

Payment must be received within seven calendar days of registration or students will be dropped from classes due to non-payment. For further information please see page 36.
- Pay online by Visa, MasterCard, American Express, or Discover at https://webadvisor.ohlone.edu. Payment must be received within seven calendar days of registration or students will be dropped from classes due to non-payment. For further information please see page 36.
- Pay by check by using the Drop Box in the Lobby of Building 1 on the Fremont campus.
- Pay by cash at the Cashier’s Window in Building 1, second floor on the Fremont campus.

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

**COMPLETE ORIENTATION AND RECEIVE COUNSELING**
- Make sure all holds are cleared and any outstanding balances paid before registering.
- Register for classes online via WebAdvisor (https://webadvisor.ohlone.edu).
  - **OR, if a class is filled**
  - Add to the waitlist and attend the first class session.
- Go to http://www2.ohlone.edu/instr/onlineeducation/ for information and instructions for online classes.

**PAY FOR CLASSES**
- Payment is due upon registration.

**PREPARE FOR CLASSES**
- Print a copy of the class schedule from WebAdvisor to confirm registration and check for errors.
  - **THEN**
  - Purchase books by going online to www.ohlonebookstore.com or visiting the Ohlone College Bookstore on the Fremont campus.
The 10th-12th Enrollment Process

This chart shows the enrollment process for 10th-12th grade students. The Kindergarten-9th grade enrollment process is outlined in the application packet (found online at http://www.ohlone.edu/org/admissions/k12admission.html or at the Fremont and Newark campuses) and includes additional course restrictions, application deadlines, and last priority for registration.

- **APPLY ONLINE**
  - Complete an online Ohlone College application at https://webadvisor.ohlone.edu/.
  - Obtain a 10th-12th grade permission packet online at http://www.ohlone.edu/org/admissions/-k12admission.html.
  - Obtain the necessary signatures on the Student Permission Form.
  - Submit the Student Permission Form and Health Waiver to the Office of Admissions and Records on the Fremont campus or to the Student Services Center on the Newark campus. All materials should be submitted by the 10th-12th grade priority date in order to ensure the earliest possible registration. The priority date can be found on page 2 in the Class Schedule and online at http://www.ohlone.edu/org/admissions/k12admission.html.
  - Receive a student ID number 2-3 business days after submission of all application materials via e-mail or by calling the Office of Admissions and Records at (510) 659-6100 if an e-mail address is not available.
  - Set up a WebAdvisor account at https://webadvisor.ohlone.edu to register, add, drop, waitlist, and pay for classes online. See pages 21-22 for more information about WebAdvisor.

- **APPLY VIA A PAPER APPLICATION**
  - Complete an Ohlone College paper application (available in the center of the printed Class Schedule or online at http://www.ohlone.edu/org/admissions/forms/appforadmission.pdf).
  - Obtain a 10th-12th grade permission packet at the Fremont or Newark campus or from any district high school.
  - Submit the Student Permission Form and the Health Waiver together as one packet to the Office of Admissions and Records on the Fremont campus or the Student Services Center on the Newark campus. All materials should be submitted by the 10th-12th grade priority date in order to ensure the earliest possible registration. The priority date can be found on page 2 in the Class Schedule and online at http://www.ohlone.edu/org/admissions/k12admission.html.
  - Receive a student ID number 2-3 business days after submitting all application materials via e-mail or by calling the Office of Admissions and Records at (510) 659-6100 if an e-mail address is not available.
  - Set up a WebAdvisor account at https://webadvisor.ohlone.edu to register, add, drop, waitlist, and pay for classes online.

- **TAKE PLACEMENT TESTS**
  - (for ESL, English, and Math Prerequisites)
  - Take the required placement tests. Placement testing is required for all students enrolling in English or math classes or classes with an English or math prerequisite. Per Title 5 of the California Education Code, K-12 classes cannot be used to meet college prerequisites. Please refer to http://www.ohlone.edu/org/placement for information regarding placement tests and dates and times that the Placement Testing Center is open.

- **REGISTER FOR CLASSES**
  - Register for classes online via WebAdvisor (https://webadvisor.ohlone.edu). Registration instructions are available on page 23 and online at http://www.ohlone.edu/org/admissions/howtoregister.html. Beginning Summer 2009 10th-12th grade students may not enroll in any PE, ATHL, or non-CSU/UC transferable courses. CSU/UC transferable courses are identified in the catalog and Class Schedule.
  - **OR, if a class is filled**
    - Add to the waitlist and attend the first class session.
  - PLEASE NOTE: Submitting the Ohlone College application and permission packet does not register students for classes. Students register for classes online via WebAdvisor. Instructions for WebAdvisor are found on page 22.

- **PAY FOR CLASSES**
  - Payment must be received within seven calendar days of registration or students will be dropped from classes due to non-payment. For further information please see page 36.
  - Pay online by Visa, Mastercard, American Express, or Discover at https://webadvisor.ohlone.edu.
  - Pay by check by using the Drop Box in the Lobby of Building 1 on the Fremont campus.
  - Pay by cash at the Cashier’s Window in Building 1, second floor on the Fremont campus.

- **PREPARE FOR CLASSES**
  - Print a copy of the class schedule from WebAdvisor to confirm registration and check for errors.
  - **THEN**
    - Purchase books by going online to www.ohlonebookstore.com or visiting the Ohlone College Bookstore on the Fremont campus.
  - PLEASE NOTE: Grades received at Ohlone College become part of a permanent college record and college transcript. 10th-12th students will be expected to participate at a college level.
PLACEMENT TESTING CENTER

Building 7, second floor, Room 7205 on the Fremont campus
(510) 659-6126
http://www.ohlone.edu/org/counseling/placement/

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

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

Step 3: Plan to arrive early to the Placement Testing Center.
- The Placement Testing Center (Building 7, Room 7205 on the Fremont campus) can accommodate 28 students at one time.
- Testing is done on a first come, first served basis.
- Students must arrive at the Placement Testing Center (Building 7, Room 7205 on the Fremont campus) to start the test(s) during the open hours. The Placement Testing Center’s hours are posted online at http://www.ohlone.edu/org/placement/.

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 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 United States. Students are required to present official transcripts to demonstrate course completion.

Students who are exempt from placement testing must see an Ohlone 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 Placement Testing Center’s open hours and 28 computer stations. Please refer to the Placement Testing Center’s schedule online at http://www.ohlone.edu/org/placement/.

Step 6: Review study guides and sample questions

- Sample questions for English, math, and ESL placement tests are available online at http://www.ohlone.edu/org/placement-studyguides.html.

Special assistance is available to students who have a disability or require special accommodations. Please contact the Placement Testing Center at (510) 659-6126 to inquire.

English as a Second Language (ESL) Placement Testing

Before taking the ESL placement test students must submit an Ohlone College application and receive an Ohlone College student ID number. ESL placement testing includes Orientation and academic advising. Students are expected to stay for the entire placement process, which is approximately 4 ½ 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 student 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.

Retest Policy

Students may retake the English and/or Math Placement Tests one time within a one-year period. Students must wait a minimum of three weeks from their initial test date and then they may attend any regularly scheduled test session. Students may take the English as a Second Language (ESL) and Chemistry tests once per Fall or Spring semester.

Students with special circumstances may submit a petition to the Dean of Counseling to request a retest earlier than the above guidelines.
NEW STUDENT ORIENTATION

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

Topics addressed at Orientation include the following:

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

New students are required to participate in an orientation session before registering for classes. A complete list of orientation exemption criteria is available online at http://www.ohlone.edu/org/orientation and in the current Class Schedule. New F-1 Visa-holding students of Ohlone College should plan on attending the International Student Orientation, held one time during the week before the start of the Spring and Fall semesters. Please contact the International Programs and Services Office for more information.

Students have a variety of Orientation options:

- Complete the Online Orientation;
- Attend an In-Person College Orientation;
- Attend an ESL (English as a Second Language) Placement Test and Orientation session.

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

REGISTRATION INFORMATION

Class Schedule

The Ohlone College Class Schedule, published three times a year (Summer/Fall, Fall, and Spring), includes application and registration procedures, class offerings, academic calendar dates, and program and general information. Schedules are mailed to continuing students and are also available from the Ohlone College Bookstore on the Fremont campus, Fremont and Newark city libraries, and other community locations. Students and the community may also search for classes for free online via WebAdvisor (https://webadvisor.ohlone.edu) by clicking on Search for Sections.

Schedule for Registration

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

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

10th-12th grade students will be able to register for classes approximately two weeks before the start of the term.

Kindergarten-9th grade students receive the last opportunity to register, starting the first day of the term.

Registration Procedures

Students should acquaint themselves with Ohlone College registration policies by studying the information in this Catalog, the Class Schedule, and registration materials supplied by the Office of Admissions and Records. Registration dates are published in the Academic Calendar on page 2 in the Class Schedule and on the Admissions and Records Web page (www.ohlone.edu/org/admissions). Students register for classes online via WebAdvisor (https://webadvisor.ohlone.edu). Registration by proxy is permissible with written permission from the student. The Office of Admissions and Records is open for extended hours several days before and after the start of each term in order to assist students.

Prerequisites Taken at Another College or University

Students who have completed course prerequisites at another college or university will need to meet with an Ohlone counselor to determine if the coursework can be used to waive the Ohlone prerequisite(s). The counselor will need to review the student's transcript. If the counselor determines that the student has successfully met the course prerequisites then the counselor will enter a waiver and the student will be able to register online via WebAdvisor.

Information about clearing prerequisites is available online at http://www.ohlone.edu/org/counseling/aboutcounseling/clearprereqs.html. Students may contact the Electronic Counselor at http://www.ohlone.edu/org/counseling/electcounsel.html or call the Counseling Department at (510) 659-6110.

Waitlisting

Waitlisting is a way to electronically stand in line for a filled class. During the registration period students may place themselves on waitlists for specific classes that are filled. When a class is filled, students will be asked if they want to add to the waitlist. If space becomes available in the class, students on the waitlist will be added to the class and notified by e-mail if they are added into the class from the waitlist.

Students are added to the class from the waitlist in the order they were added on the waitlist. Students who have errors preventing registration such as an outstanding balance, unmet prerequisites, class conflicts, or overload issues will not be added into a class from the waitlist even if space is available in the class. Students should be sure to attend the first class session if they are on a waitlist, as waitlisted students who do not attend the first class session may not be added to the class from the waitlist by the instructor. Students who decide not to take a class they have waitlisted should be certain to drop themselves from the waitlist, as they will be subject to any fees and grades for courses in which they are registered from the waitlist. Students are added into classes from the waitlist through the last day to add without the instructor’s signature. After that date, faculty completely control which students are added into classes.

Jeff Johnson, Ohlone baseball player, led the State in most home runs in the 2009 season. Photo courtesy of Dan Jedlovic.
Adding Classes (Registration After the Start of Class)

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

Dropping Classes or Withdrawing

Students can drop classes via WebAdvisor through the 75% point of the class or by bringing a completed Add/Drop Form to the Office of Admissions and Records on the Fremont Campus or the Student Services Center on the Newark Campus. An instructor’s signature is not required to drop a class. Students will receive a W grade if they drop a class after the last day to drop without a W. However, W grades are not considered punitive and students are always encouraged to drop classes in which they are not doing well and are concerned that they may receive a failing grade. Classes cannot be dropped after the deadline to receive a W; students who are still enrolled after the last day to drop must receive a letter grade (A-F).

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

Per Title 5 of the California Education Code, students are restricted in the number of W grades they may receive in the same course. Once a student has earned three W’s in the same course at Ohlone College the student will be restricted from registering for the course again. The student will need to meet with the appropriate division dean and the Dean of Counseling to request permission to register for the course an additional time. If the division dean and the Dean of Counseling approve the student’s request to take the course again the student may be required to meet with a counselor regularly and/or obtain tutoring. If the division dean and the Dean of Counseling approve the student’s request then the student will need to submit the signed petition form to the Office of Admissions and Records so the Admissions and Records staff can register the student.

If a student is allowed to take a course after receiving four W grades then Title 5 of the California Education Code requires that the student must earn a letter grade for the fifth (or subsequent) time taking the course. A student may not drop the course with a W after four W grades have already been earned; after the fourth W the student must receive a letter grade (A-F).

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. Students may also visit www.ohlone.edu/org/transfer for information.

WEBAdvisor (https://webadvisor.ohlone.edu)

WebAdvisor is Ohlone’s online academic management system and is available for free to all current Ohlone students. WebAdvisor is the most convenient way to register for classes, add and drop classes, add to a waitlist, view placement test scores, view a class schedule, submit payments, print an unofficial transcript, and check grades. Students can go to WebAdvisor and have to access their student schedule, financial aid information, balance, and grades. WebAdvisor also provides the first opportunity for students to register and offers the most current class information. Students can go online to https://webadvisor.ohlone.edu to set up a free WebAdvisor account after their application has been completed and they have received a student ID number from the Office of Admissions and Records. Please see page 22 for detailed instructions.

Registering for Classes

Students register for classes online via WebAdvisor (https://webadvisor.ohlone.edu). Students cannot register before their scheduled registration day and time. Students are also prevented from registering if they have an outstanding balance, incomplete application, or need to submit a new application. Students should meet with an Ohlone College counselor if they need help choosing their classes. Students may make an appointment with a counselor by going online to http://www.ohlone.edu/org/counseling/aboutcounseling/-onlineappt.html, calling (510) 659-6110, or by making an appointment at the Counseling Window (Building 7, third floor on the Fremont campus).
Getting a WebAdvisor Account

Step 1: Go to the Ohlone College Web page at www.ohlone.edu.

Step 2: Click on the WebAdvisor link located at the top right hand corner.

Step 3: Click on "Sign up for WebAdvisor access. It's FREE!"

Step 4: Click on "I need an Ohlone College Web Services Account" under Step 2.

Step 5: Enter your student ID number in the Colleague ID Number box, your first name, last name, birth date (in the requested format), and your zip code. See the example below. Then hit "Submit".

Step 6: Create a unique security question and answer and password. Please choose a security question and answer and a password that you can easily remember. Hit Submit and your user name will be e-mailed to the e-mail address on your student record.

Web Services Account Setup

Get your user name and password for access to Ohlone services by completing the form below.

| Colleague ID Number: 0000002 | This is the seven digit number that can be found on the e-mail you were sent when your application was completed. Please input leading zeros (for example, 0000002). |
| First Name: John | Enter the first name you used when you submitted an application to Ohlone. |
| Last Name: Doe | Enter the last name you used when you submitted an application to Ohlone. |
| Birth date (YYYYMMDD): 19910302 | Enter your date of birth beginning with the year, followed by the month and day. Be sure to include all four digits of the year, two digits for the month, and two digits for the day (for example, enter 19910302 if your birth date is March 2, 1991). |
| Zip Code: 94538 | Enter the five digit zip code you used when you submitted an application to Ohlone (for example, 94538). |

After you have entered all of the information above, click on the Submit button to complete the sign up process.

The information you enter to create your WebAdvisor account must be identical to the information that is on your student record. If you receive an error message about invalid data it is because the information you entered doesn’t match your student record. If you receive an error message about invalid data please contact Admissions and Records at (510) 659-6100 or by e-mail at admissions@ohlone.edu. Please provide your student ID number, first and last name, birth date, and zip code so Admissions and Records staff can compare the information you provide with your student record.
Online Registration Process

How to Find Classes

Look in the printed Class Schedule or go online to WebAdvisor (https://webadvisor.ohlone.edu). In WebAdvisor,

1. Click on Search for Sections.
2. Enter the appropriate Term and Subject, or any other search criteria. At least two fields must be selected.
3. Click on Submit to find the class that meets your needs.

How to Register for Classes

1. Go to WebAdvisor at https://webadvisor.ohlone.edu after creating a WebAdvisor account.
2. Click on Students.
3. Click on Log In.
4. Enter your User ID and Password.
5. Go to the Registration section on the left side.
6. Click on Register for Sections.
7. Click on Express Registration if you already know the exact classes you want to take.
8. Enter the synonym in the first column on the left and the term in the last column on the right.

**Example:** To register for ENGL-101A-01 during Fall Semester
(01) 042218 J. Dean MWF 8/31/09-12/18/09 8:00am-9:00am 6201
- Enter the Synonym (the six-digit number), 042218 in this example, in the first column on the left.
- Then enter the term, 2009 Fall Term, in the last column on the right.
- Hit Submit and remember to complete step 9 below.

9. Choose Register from the Action drop-down box in the first column on the left (other possible actions are Remove from List or Waitlist). Then hit Submit.
10. Choose Waitlist from the Action drop-down box if the class is full and you want to add yourself to the waitlist, which is a way to “electronically stand in line” for a full class. Then hit Submit.

Students cannot register before their scheduled registration time. If there is an error preventing registration such as needing to submit a new application, unmet prerequisites, time conflicts, unit overload issues, or an outstanding balance, an error message will appear at the top of the WebAdvisor screen, above where it says UNSUCCESSFUL REGISTRATION. Students may call Admissions and Records at (510) 659-6100 or e-mail admissions@ohlone.edu for help understanding an error message.

Forgot Your Password or User ID?

Students who have forgotten their WebAdvisor Password should first go to WebAdvisor and click on “I Forgot My WebAdvisor Password.” Students who are still unable to retrieve their WebAdvisor password or who have forgotten the answer to their security question will need to contact the Help Desk at helpdesk@ohlone.edu and ask them to reset the WebAdvisor account. Students who have forgotten their User ID may retrieve it by going to WebAdvisor and clicking on “What Is My WebAdvisor User Name?” Students should include their student ID number in any communication with the College.
Most Student Services offices are located in the Student Services Center, Building 7 on the Fremont campus. Admissions, registration, records, counseling, and financial aid assistance are also available at the Student Services Center on the Newark campus. The cafeteria is located in the Hochler Student Center, Building 5 on the Fremont campus and Athletics offices are located in the Epler Gymnasium, Building 9 on the Fremont campus.

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

**ADMISSIONS AND RECORDS**

Fremont campus, Building 7, second floor  
(510) 659-6100

Newark campus, Room 1312  
(510) 742-2340

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 academic records. Admissions and Records also assists students with transfer credit evaluation, general education and IGETC certification, processing transcript requests and enrollment verifications, determining residency, and certification of completion of certificate and degree requirements.
Student Services Curriculum

Student Services as a division exists to focus on the whole student, and the entire student learning experience. Everything we do contributes to and promotes the quality of student learning. The vision of Student Services will center around five main learning concepts that will guide our work in defining our division’s Student Learning Outcomes.

RESPONSIBILITY

Student Services helps students develop personal responsibility for their lives, and their learning skills such as time management, budgeting, and ability to meet deadlines. Students learn self sufficiency, responsibility, and accountability through the co-curriculum processes of online admissions, assessment, orientation, financial aid, Transfer Career Center services, individualized counseling, and personal health services.

RESPECT

Student Services provides the co-curriculum of respect of self and others through a myriad of student development opportunities designed for learning about differences and commonalities. Participation in competitive sports and the opportunity to understand one’s own and others’ learning abilities and disabilities are components of respect. Student Services focuses on building a diverse learning community that demonstrates the value of each individual through trust, cooperation, and teamwork in an environment of civility.

INTEGRITY

Student Services helps students develop their honesty of character through awareness and intervention. The student code of conduct is built in tandem with the academic dishonesty regulations. The lack of gossip is encouraged.

LEADERSHIP

Student Services is in the role of providing leadership skill building opportunities through student development workshops, classes, and one-to-one mentoring. Campus activities, associated students, clubs, peer mentors, launching leadership workshop series are all fundamental components of teaching students leadership skills.

PURPOSE

As one of our students said this summer, “Everyone wants and needs to know their purpose.” Student Services is composed of professional educators who provide learning opportunities for students to self discover purpose. We provide leadership opportunities, academic advising, and personal and emotional support as students transform themselves through their self learning and academic efforts. Purpose is powerful.

Ohlone Student Services’ vision for the next five years is an achievable possibility centered around the five concepts of a curriculum of Responsibility, Respect, Integrity, Leadership, and Purpose. The possibilities of Student Services are the possibilities for students. And the possibilities for students are the possibilities for Ohlone College.
ATHLETICS

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

Athletics is an academic program that produces significant student learning outcomes that relate directly to success in life. The Athletics program aims to support student success in accomplishing these learning outcomes as well as monitoring and reaching a variety of academic achievement goals including GPA, course and program completion, and transfer. The student learning outcomes related to athletics include the following:

- Engage and interact in team membership.
- Value the connection between preparation for and execution of work.
- Realize the value of effective leadership skills.
- Exhibit how accountability, commitment, and sacrifice relate to the pursuit of personal and/or team goals.
- Promote physical health and wellness.
- Handle adversity and discouragement as well as success with dignity.
- Demonstrate an acceptance and appreciation for diversity of a team.

Ohlone College is a member of the Coast Conference. This conference competes against colleges that are located throughout the Greater Bay Area, including regions such as Santa Cruz, Gilroy, Monterey, San Jose, and San Francisco. The sports that are offered at Ohlone College include the following:

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>Golf (W)</td>
<td>Basketball (M and W)</td>
<td>Baseball (M)</td>
</tr>
<tr>
<td>Soccer (M and W)</td>
<td>Softball (W)</td>
<td>Swimming (M and W)</td>
</tr>
<tr>
<td>Volleyball (W)</td>
<td>Tennis (M and W)</td>
<td></td>
</tr>
<tr>
<td>Water Polo (M and W)</td>
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Eligibility requirements can be found on the California Community College Athletics Association’s (CCCAA) Web site at www.coasports.org. These requirements include that students are actively enrolled in the college with a minimum of 12 units (9 academic), have never played professionally in their interested sport, and have a current sports physical on file with the Athletic Trainer. Students who are interested in participating in an intercollegiate sport should contact the respective sport coach or the Athletics Department Office for further information.

CAMPUS ACTIVITIES

Fremont campus, Building 7, second floor
(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 advises student government (ASOC) and student clubs and produces co-curricular activities. Check with the Campus Activities Office, Building 7, Room 7210, (510) 659-6255, for more information about organized student programs and clubs, or visit http://www.ohlone.edu/org/campus-activities/.

Student Government

Also known as the Associated Students of Ohlone College, ASOC is the voice of the students in the shared governance of the College. Every Spring the executive board of President, Vice President, Treasurer, Secretary, Representative at Large, Legislative Representative, and Student Trustee are elected by a majority vote of the student body. During Fall and Spring Semesters students can elect to participate in student government by filling out the petition to be a Senator. All students are encouraged to participate. Meetings and leadership training are mandatory and are held every Tuesday from 4:00pm-6:00pm. For more information, stop by Campus Activities in Building 7, second floor on the Fremont campus or go online to http://www.ohlone.edu/org/asoc/.

Peer Mentor Program

Peer Mentors are Ohlone students who help in recruiting and retaining students. Specially selected and instructed, these students also receive financial rewards for their efforts. Call the Peer Mentor Supervisor at (510) 659-6519, visit the Web site at http://www.ohlone.edu/org/peermentors/, or stop by the Counseling Department on the Fremont campus for more information.

Cafeteria and Vending Services

Fremont campus, Building 5, second floor
Newark campus, Room 1201, first floor, wing 2
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 on the Fremont campus and Café service on the Newark campus 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 and Café are 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 on the Fremont campus). 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.

BOOKSTORE

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

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

Did you know???

Community colleges are serving 16,000 (76%) of the 21,000 veterans and dependents using GI Bill benefits in California’s public colleges and universities.

Source: Community College League of California

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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 7, second floor on the Fremont campus, visit their website at http://www.ohlone.edu/org/campusactivities/, or call (510) 659-6255.

Clubs

Afghan Youth Coalition
American Sign Language Club
Anime Club
Asian Pacific American Student Association
Badminton Club
Biology Club
Business and Economics Club
Chinese Student Association
Comedy Club
Crossroads
Gay Straight Alliance
Health Care Coalition (AMSA Health Care Coalition)
Indian Student Alliance
International Club
Liberated Individuals for the Environment (L.I.F.E.)
Make a Wish Club
Math League
Movimiento Estudiantil Chicano de Aztlán (MEChA)
Muslim Student Association
Ohlone College Psychology Club
Ohlone Game Developers Club
Ohlone League of Engineering
Peer Mentors
Photography Club
Respiratory Therapy Club
Smash University (competitive badminton)
Speech and Communications Club
Urban Movement Club

Co-curricular Activities

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

CAMPUS POLICE/SAFETY AND SECURITY SERVICES

Fremont campus, Building 20, first floor
(510) 659-6111

Newark campus, Room 1001
(510) 742-2311
http://www.ohlone.edu/org/security/

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

The responsibilities of Campus Police Services include campus security; traffic and parking control; prevention and detection of crime; and enforcement of federal, state, and municipal laws and district regulations and policies. 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 on the Fremont campus and is open from 8:00am-10:00pm Monday-Friday. Campus Police Services personnel are not available during district holidays. 24-hour contact is available with Ohlone Campus Police and/or college staff.

To contact Campus Police Services on the Fremont campus:

- 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.

(continued on next page.)
Counselors meet with students individually, in small groups, workshops, and in classes to help students in achieving their academic goals and personal growth. Counselors are educated to directly assist students with a wide range of issues and are knowledgeable about other helpful resources at Ohlone and in the community. Counselors can provide career information and assessment, orientation, and other general counseling services. Counselors have current college transfer information and help students with transfer plans. Personal counseling services are offered in the Student Health Center. For an appointment for personal counseling, please call the Student Health Center at (510) 659-6258 or drop by Building 7, third floor on the Fremont campus.

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

Counselors meet with students individually, in small groups, workshops, and in classes to help students in achieving their academic goals and personal growth. Counselors are educated to directly assist students with a wide range of issues and are knowledgeable about other helpful resources at Ohlone and in the community. Counselors can provide career information and assessment, orientation, and other general counseling services. Counselors have current college transfer information and help students with transfer plans. Personal counseling services are offered in the Student Health Center. For an appointment for personal counseling, please call the Student Health Center at (510) 659-6258 or drop by Building 7, third floor on the Fremont campus.

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COUNSELING DEPARTMENT

Fremont campus, Building 7, third floor
(510) 659-6110
Newark campus, Room 1312
(510) 742-2340
http://www.ohlone.edu/org/counseling

Did you know???
2009 marked the 40th anniversary of Extended Opportunity Programs and Services serving students within the California Community College system.

Fremont campus, Building 7, third floor
(510) 979-7555
http://www.ohlone.edu/org/career/

Career Services provides resources to students wishing to explore careers and/or employment. Career testing is available for those students who are undecided about their educational and occupational goals via the Personal Development classes offered every semester, which include Career Testing Workshop (PD-149), Career Planning (PD-150), and Strategies for College Success (PD-111 or PD-113). For students wishing to work in the community, Career Services 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, Career Services works in partnership with the One-Stop Career Center. Students are encouraged to visit Career Services to see the services offered.
DISABLED STUDENTS PROGRAMS AND SERVICES (DSPS)

Fremont campus, Building 7, second floor
(510) 659-6079
http://www.ohlone.edu/org/dspsl

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

Fremont campus, Building 7, second floor
(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, and 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, progress reports, book vouchers, grants, and tutoring. Students planning on transferring to four-year institutions can receive assistance in completing the transfer process, filing Transfer Admission Agreements (TAA) and Transfer Admission Guarantees (TAG), guidance in college selection, letters of recommendation, and fee waivers for University of California and California State University applications.

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

Applications for entry into the EOPS program are accepted throughout the year, but students are encouraged to apply during their first semester at Ohlone. Applications are available in Building 7, second floor on the Fremont campus during regular business hours.

Cooperative Agencies Resources for Education Program (CARE)

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

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

Students interested in receiving CARE services must first be EOPS students, participate in the county’s CalWORKs program, and receive TANF benefits. Interested students should complete the EOPS application available in Building 7, Room 7249 on the Fremont campus.
CalWORKs Program
(California Work Opportunity and Responsibility to Kids)

The CalWORKs program at Ohlone 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 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 7, Room 7249 on the Fremont campus.

FINANCIAL AID

Fremont campus, Building 7, second floor
(510) 659-6150
Newark campus, Room 1312
(510) 742-2340
http://www.ohlone.edu/org/finaid

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

Ohlone participates in Title IV federal and California student financial aid programs. There are basically two types of financial aid: grant and self-help (such as work study and loans). Grants are awarded based on financial need and do not require repayment. Work Study students earn financial aid by working a part-time job. Loans are aid that must be repaid at a low-interest rate. In addition, private and institutional scholarships are available. Ohlone 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 on the Fremont campus or send an e-mail to financial_aid@ohlone.edu. Please see the types of Financial Aid chart on page 31 for the financial aid available at Ohlone.

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:

- Castro Valley Women’s Club
- Cheyenne and Arapaho Tribes
- Dolores Warren/Bay Area Black Nurses Association
- El Camino Hospital Auxiliary
- First Presbyterian Church, Newark
- Fremont Elks Lodge
- Hillman Memorial Scholarship Fund
- Horatio Alger Association
- Kaiser Permanente
- Kiwanis Club of Fremont
- Lightfoot Foundation
- National Service Award
- Oneida Nation of Wisconsin
- San Tomas Voiture 365 40 et 8 Nursing Scholarship
- U.S.B.C.
- WGI Sport of the Arts

INTERNATIONAL PROGRAMS AND SERVICES

Fremont campus, Building 1, Room 1302
(510) 659-6439
http://www.ohlone.edu/org/international/

Students from many different countries throughout the world pursue academic degrees and English language studies at Ohlone College. The International Programs and Services Office serves international students who are applying to and attending Ohlone on the F-1 Student Visa. The services that the International Programs and Services Office provides international students and their families include international admissions; application processing; United States Citizenship and Immigration Services (USCIS) regulations advisement; international student orientation; Optional Practical Training and Curricular Practical Training coordination; and general advisement on transfer to a four-year university. The office also assists with the administration of Ohlone College’s Study Abroad programs for American and international students.

For more information, please refer to the International Student Admission section of this Catalog (page 15), visit http://www.ohlone.edu/org/international, or call (510) 659-6439.
<table>
<thead>
<tr>
<th>Type of Aid</th>
<th>Amount (per year)</th>
<th>Student Eligibility</th>
<th>Required Forms</th>
<th>Must Apply By</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRANTS</strong></td>
<td></td>
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<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</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</td>
</tr>
<tr>
<td>State Cal Grant A</td>
<td>Awarded after transfer to four-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>
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<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>
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<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 $300 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>
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</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**

Fremont campus, Building 7, third floor  
(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. Low cost services include pregnancy testing, immunizations, flu shots, TB tests, lab work, and gynecological exams. Hours of operation are Monday-Thursday 9:00am-2:00pm and 4:00pm-6:00pm. For appointments or information please call (510) 659-6258 or go to www.ohlone.edu/org/healthctr.

The Student Health Center operates a small service satellite center at the Newark Center for Health Sciences and Technology. Services are limited to health science consults, immunizations, and TB tests. The hours are to be determined pending a needs assessment. All primary care visits and physicals are done at the Fremont campus in Building 7, third floor. Please call (510) 659-6259 for more information.

**Student Health Center Personal and Mental Health Counseling**

The Student Health Center offers free assessment, short-term personal counseling and life coaching, 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 7, third floor on the Fremont campus.

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

**TRANSFER CENTER**

Fremont campus, Building 7, third floor  
(510) 659-6241  
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 meet with prospective students. Students can make an appointment to meet individually with a recruiter through the Transfer Center.

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 “Discovering Your Direction: How to Choose Your Major,” “How to Write Your UC Personal Statement,” and “Getting Ready to Transfer: The Final Year.”

While at Ohlone College, students may complete their lower division (freshman and sophomore) general education requirements and major field courses prior to transfer. Many courses offered at Ohlone have been articulated with the University of California, California State University, and private institutions. Students are encouraged to meet with a counselor in order to develop a specific transfer plan.

Ohlone College has also established various programs with specific universities such as Transfer Admission Guarantee (see page 52), Concurrent Enrollment with University of California, Berkeley (see page 52), and Cross Registration with California State University, East Bay (see page 52). Please visit http://www.ohlone.edu/org/transfer for more information on these and other programs.

**Transfer Planning**

Students should see a counselor to develop a transfer education plan and determine which general education courses are appropriate for their specific goals. It is important to note that 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.

Just before transferring to either a California State University (CSU) or University of California (UC) campus, students will need to apply for an official General Education Certification which reflects completion of General Education requirements. This request should be made at the Office of Admissions and Records on the Fremont campus during the last term prior to enrollment at the university. In addition, students need to request that an official, final transcript is sent to the transfer institution.
TU T ORIN G SERVICES

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

The Tutoring Center, located in Hyman Hall (second floor, Room HH-217 on the Fremont campus), offers peer tutoring in most subject areas. Other tutoring locations include:

- Accounting Lab (Building 8, Room 8110 on the Fremont campus).
- Biology Learning Center (Building 8, Room 8318 on the Fremont campus). Drop-in biology and chemistry tutoring services are provided at the Biology Learning Center.
- English Learning Center (Hyman Hall, Room HH-217 on the Fremont campus). 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 (Newark campus) by appointment.
- Math Learning Center (Hyman Hall, second floor on the Fremont campus). Tutoring services are provided in Math, Physics, and Engineering in the Math Learning Center.
- Respiratory Therapy (Newark campus) by appointment.
- English and Math tutoring at Newark (Room NC2306 on the Newark campus).

“...I am so grateful for the opportunity to finish school. If it wasn’t for the support that Ohlone provides to me, I don’t believe that I would have gotten this far. I am excited about finishing school, and about my future.”

Teran Finley
Ohlone College Nursing and Speech Communication Major

VETERANS’ EDUCATIONAL BENEFITS

Fremont campus, Building 7, second floor
(510) 659-6199
http://www.ohlone.edu/org/veterans/

Ohlone College students who are veterans or dependents of veterans may be entitled to receive monthly compensation toward their college expenses under the Veterans’ Educational Assistance Program (VEAP), the Montgomery GI Bill-Active Duty, Chapter 30, the Montgomery GI Bill-Selected Reserve, Chapter 1606, or the Survivors & Dependents, Chapter 35 Educational Assistance Programs.

To apply for benefits, all eligible veterans and dependents must complete an Initial Application, VA Form 22-5490, available online at http://www.gibill.va.gov or at the Veterans Affairs Office on the Fremont campus. 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 Veterans Affairs Office. Students should visit the Counseling Department 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.
CHAPTER 4        FEES AND REFUNDS

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

FEES

Enrollment Fee
Enrollment fees are required of all students, except K-12 students and students who qualify for a fee waiver. Enrollment fees and refunds vary based upon residency, non-resident, and/or non-citizen status. Please see the 2009-2010 fees listed on page 35 in this catalog and in the Class Schedule.

Electronic Access Fee
The electronic access fee is required of all students who use WebAdvisor. WebAdvisor is the online portal for all online registration, payments, and academic records review. The fee is non-refundable except for students who do not access WebAdvisor and submit a refund request to the Cashier’s Office on the Fremont campus.

Student Activity Fee/Student ID Card
Every student is encouraged to support the optional, non-refundable Student Activity Fee supporting co-curricular activities and student events ($5 per semester for Fall and Spring; $2.50 for Summer Session). Included in the Student Activity Fee is the ability to receive a Student ID card. The Student ID card entitles students to a number of benefits including free or discounted admission to College and ASOC sponsored events; easy library book checkout; reduced rates for events held in the Gary Soren Smith Center for the Fine and Performing Arts; identification for the Reading and Writing Labs; and special discounts in the Ohlone Cafeteria and community. In addition to these discounts students are encouraged to check with symphonies, amusement parks, and theaters about established student discount programs. For a complete list of local merchants participating in the discount program and other ID card benefits, please visit ASOC in Building 7, Room 7210 on the Fremont campus or call (510) 659-6063.

Health Services Fee
Ohlone College provides health services for students through the Student Health Center. In accordance with State Community College regulations, all enrolled students will be charged a Health Services Fee of $17 for both Fall and Spring semesters and $14 for Summer term.

The only exemptions for this fee are listed below:

- The Health Services Fee is optional for students taking classes held only on Sunday or only at off-campus locations. Only such students who elect to pay the Health Services Fee will be eligible for health services.
- Students who rely only on prayer for healing in accordance with teachings of a bona fide religious sect, denomination, or organization may seek exemption from the fee and services. To apply for a waiver, students must provide a statement of such reliance from an official of the sect, denomination, or organization to the Student Health Center on the Fremont campus 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.
2009-2010 Fees

Fees may be charged for copies of student records; processing of enrollment fee and tuition refunds; and vocational and counseling related tests. Fees will be charged for Community Education events and facilities use in accordance with California Education Code provisions. **All fees are subject to change.**

<table>
<thead>
<tr>
<th>FEE</th>
<th>AMOUNT</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment Fee</td>
<td>$20 per unit</td>
<td>Required of all students except K-12 students and students who qualify for a fee waiver.</td>
</tr>
<tr>
<td>Electronic Access Fee</td>
<td>$5 per term</td>
<td>Required for all students who use WebAdvisor for online registration, payments, and academic records review. Non-refundable except for students who do not access WebAdvisor and submit a refund request to the Cashier’s Office.</td>
</tr>
<tr>
<td>Parking Permit</td>
<td>$35 per semester per vehicle; $18 per semester per motorcycle; or $2 daily rate</td>
<td>Required of all students who park on the Fremont campus or on the Newark campus. Parking permits may be purchased at the Bookstore on the Fremont campus. Fees are currently under review and are subject to change.</td>
</tr>
<tr>
<td>Non-resident tuition</td>
<td>$190 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>$195 per unit, in addition to Enrollment Fee (includes $5 per unit Capital Outlay Fee)</td>
<td>Required of all non-resident, non-citizen students including those who hold C, D, F, H-2, H-3, J, M, P, Q, TD, and TN visas. Holders of B visitor visas may not enroll.</td>
</tr>
<tr>
<td>Student Activity Fee</td>
<td>$5 for both Fall and Spring semesters and $2.50 for Summer Term</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>$17 for both Fall and Spring Semesters and $14 for Summer Term</td>
<td>Required of all enrolled students except those students with exceptions as listed in the Health Services Fee section on page 34.</td>
</tr>
<tr>
<td>Printing Fees</td>
<td>$1 initial purchase fee for reusable card and 50¢ printing credit. Printing cost is 15¢ for black and white printing and 60¢ for color printing.</td>
<td>Required for printed copies in all computer labs and classrooms.</td>
</tr>
<tr>
<td>Copying Fees</td>
<td>15¢ per page (black and white) 60¢ per page (color)</td>
<td>Payment for copies is required in Hyman Hall and the Library.</td>
</tr>
<tr>
<td>College Catalog</td>
<td>$3</td>
<td>Add an additional $3.75 for postage and handling if catalog is mailed.</td>
</tr>
<tr>
<td>International Student Application Fee</td>
<td>$50</td>
<td>Non-refundable fee for new international student applications.</td>
</tr>
<tr>
<td>Transcripts - Normal Processing</td>
<td>$4 per copy</td>
<td>First two copies are free.</td>
</tr>
<tr>
<td>Transcripts - Express Service</td>
<td>$10 per copy</td>
<td>Not available during Extended Registration</td>
</tr>
<tr>
<td>Transcripts - Unofficial</td>
<td>Free</td>
<td>Available only through student’s WebAdvisor account</td>
</tr>
<tr>
<td>Verification of Enrollment</td>
<td>$4</td>
<td>First two copies are free.</td>
</tr>
<tr>
<td>Duplicate Registration Receipt/ Work-in-Progress Listing</td>
<td>Free</td>
<td>Available through student’s WebAdvisor account</td>
</tr>
</tbody>
</table>

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

Additional fees may be added at a later date, subject to approval by the Ohlone Community College District Board of Trustees. Fees are accurate at the time of catalog publication; however, fees may be increased and could result in additional charges after registration has been completed.
The Ohlone Community College District may through its officers withhold transcripts, diplomas, and registration privileges, or any combination thereof, from any student who has been provided with written notice (via letter or e-mail) that the student has failed to pay a proper financial obligation due to the District. Any item or items withheld shall be released when the student satisfies the financial obligation. This policy is authorized by the California Education Code Section 72237.

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

## Unpaid Financial Obligations

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

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

## Payment Options

1. Pay with a credit card.
   
   Students may pay with a credit card via their WebAdvisor account (https://webadvisor.ohlone.edu) or at the Cashier’s Office (Fremont campus, Building 1, second floor). Students may use a debit card for this option if the debit card has a Visa, MasterCard, Discover, or American Express logo.

2. Pay in full with a checking or savings account.
   
   Students may pay in full with a checking or savings account through WebAdvisor (https://webadvisor.ohlone.edu) or e-Cashier. e-Cashier is a third party vendor that allows students to sign up for a monthly payment plan.

   There is no charge for paying in full using e-Cashier and an e-check.

3. Sign up for a payment plan.
   
   Students may sign up for a payment plan through WebAdvisor (https://webadvisor.ohlone.edu) or e-Cashier with a credit card, checking account, or savings account. e-Cashier is a third party vendor that allows students to sign up for a monthly payment plan. There is a $20 non-refundable fee for this payment plan option.

4. Pay at the Cashier’s Office.
   
   Students have seven days from the time of their most recent registration activity to pay through the Cashier’s office (Fremont campus, Building 1, second floor) or to place check payments in the Drop Box in the Building 1 Lobby on the Fremont campus. Students may pay in person with cash, check, or credit card. Mailed checks must be received in the Cashier’s Office within seven days of registration. Checks may be mailed to Ohlone College Cashier, 43600 Mission Boulevard, Fremont, CA 94539.

   Students who feel they have extenuating financial circumstances and cannot meet any of the above payment options within the seven days of their registration need to contact the Counseling Office at (510) 659-6110 or the Electronic Counselor at http://www.ohlone.edu/org/counseling/electcounsel.html to discuss their situation.

## PAYMENT

Payment is due at the time of registration. Students have seven days from the time of their most recent registration activity to complete their tuition and fee payment arrangements. Students must either pay at the time of registration or select a payment option from the following list within this seven day period. Students who do not take one of these actions will be dropped from their classes for non-payment.

For a listing of student programs that will not be dropped due to non-payment or to see the Frequently Asked Questions please visit the Cashier’s Office Web site at http://www.ohlone.edu/org/studentrec.

Students need to make sure when they choose a payment plan that they have dropped any classes they do not plan on attending. Students who do not drop classes will be held financially responsible for those classes.

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**Did you know???

$1.6 million is the average lifetime earnings of a graduate with an associate’s degree – $400,000 more than for a high school graduate.

Source: Community College League of California

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**REFUNDS**

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

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

**Photo courtesy of Julie Polk.**
ACADEMIC STANDING

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

Honors

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

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

Clear Standing

A student whose last completed semester GPA and cumulative GPA are 2.00 or above and whose accumulated units of W (Withdrawal), NP (No Pass), and/or I (Incomplete) do not reach or exceed 50 percent shall be in Clear Standing.

Academic Probation

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

Progress Probation

A student who has attempted 12 or more units shall be placed on Progress Probation when the percentage of all units attempted for which entries of W (Withdrawal), I (Incomplete), and/or NP (No Pass) 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 NP 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 NP 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 NP are recorded reach or exceed 50 percent for three consecutive semesters. Any student who has been dismissed after having been placed on Probation may petition for reinstatement under certain conditions; students should refer to the Reinstatement section in this catalog for details.

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

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

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

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

- Attending a Student Success Workshop;
- Completing a Student Education Plan approved by a counselor;
- Limiting the number of units in which the student may enroll;
- 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 California Education Code, regards the following as causes for disciplinary measures which may lead to dismissal from class or from the College: excessive absences; serious lack of academic effort; unsatisfactory conduct; violation of any state law or municipal ordinance on the College campus; and action detrimental to the best interests of the College. Readmission of a student dismissed for disciplinary reasons is dependent upon favorable administrative action. The Standards of Student Conduct and Discipline and Due Process Procedures are available from the distribution rack located in Building 7, first floor on the Fremont campus.

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 40. 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 on the Fremont campus and are available online at http://www.ohlone.edu/org/admissions/forms/studentpetitionforacademicaction.pdf. Completed petitions need to be submitted to the Office of Admissions and Records on the Fremont campus. Transcripts of the previous work for which exclusion is requested must be on file in the Office of Admissions and Records prior to petitioning.
STUDENT CLASSIFICATIONS

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

**Freshman:** A student who has earned from 0 to 29.5 semester units of college work credit

**Sophomore:** A student who has earned from 30 to 60 semester units of college work credit

**Full time:** A student enrolled in 12 or more semester units

**Part time:** A student enrolled in 11.5 or fewer units

**Half-time:** A student enrolled in 6 units or less

STUDENT LOAD/OVERLOAD GUIDELINES

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

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

GRADES

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 California Education Code and adopted by the Board of Trustees of Ohlone College. The awarding of a grade to a student is the responsibility of the instructor of the course in which the student is registered.

The earned grade as assigned by the instructor shall be final and shall become a part of the student’s permanent record. The determination of the student’s grade by the instructor shall be final in the absence of clerical or evaluative error. Grades are available to students via WebAdvisor (https://webadvisor.ohlone.edu) within four weeks after the semester ends.

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

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

<table>
<thead>
<tr>
<th>Evaluative Grades</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>D</td>
<td>Passing, less than satisfactory</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
</tr>
<tr>
<td>P</td>
<td>Pass (at least satisfactory)</td>
</tr>
<tr>
<td>NP</td>
<td>No Pass (less than satisfactory or failing)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non Evaluative Grades</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
</tr>
<tr>
<td>MW</td>
<td>Military Withdrawal</td>
</tr>
<tr>
<td>RD</td>
<td>Report Delayed</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</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 Pass/No Pass classes or any units earned in non-evaluative graded classes should not be included.

Pass/No Pass Option

Many courses offer a student the option of a letter grade or Pass/No Pass. 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 Pass/No Pass may be applied toward the associate degree. Courses taken on a Pass/No Pass 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 Pass/No Pass courses may be used to satisfy the major field requirements.

Under this policy, the College offers:

1. Some courses solely for Pass/No Pass. 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 Pass grade is earned will receive no units, will not apply toward graduation, and will not affect the student’s grade point average.
2. Some courses solely for a standard letter grade. These are identified by the code GCR following the course descriptions in this catalog.
3. Some courses in which the student may choose to complete the course for either Pass/No Pass or for a standard letter grade. These courses are identified by the code GC following the course descriptions in this catalog.

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

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

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

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

Students may not re-enroll in a course in which they have an Incomplete grade. Students 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.

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 and the division dean.
- 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 on the Fremont campus.

The audit fee shall be $15 per unit per term and is not refundable. Students enrolled in credit classes for 10 or more units per semester shall not be charged a fee to audit 5 or fewer units per term.

REPETITION OF COURSES

For Credit

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

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

To Improve a Grade

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

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

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

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

UNIT OF CREDIT DEFINITIONS

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

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

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

Petitions for Credit by Examination are available in the Office of Admissions and Records on the Fremont campus 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 Accomplishment.

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

Students seeking advanced standing in Registered Nursing or Respiratory Therapy based on certificates or licenses already held in those fields may challenge a maximum of 19 units (first year major courses in each program). Applications to qualify for Credit by Examination in Registered Nursing or Respiratory Therapy are made directly to the Health Sciences and Environmental Studies Division Office on the Newark campus. R.N.'s seeking credit by exam for transfer to a four year college or university may challenge first and second year major courses in nursing after completing six or more units at Ohlone College. Please contact the Health Sciences and Environmental Studies 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 on the Fremont campus – for two units of credit for health science, two units for military science, and two units for physical education. Veterans with service school training also may be eligible for credit after evaluation by the Office of Admissions and Records. Other non-collegiate courses as recommended by the American Council on Education may be accepted for credit. Credit limitations for non-collegiate courses are as follows:

- Military Basic Training: 6 semester units
- Military Service School Equivalencies as recommended by the American Council on Education's Committee for Evaluation of Military Services Experiences: 16 semester units
- Non-collegiate courses as recommended by the American Council on Education as printed in the "National Guide to Credit Recommendations for Non-collegiate Courses": 16 semester units

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

**Advanced Placement (AP) Credit**

Ohlone College recognizes the Advanced Placement program of the College Entrance Examination Board. Course credit for general education requirements, including certification for CSU and IGETC, is granted for Advanced Placement examinations with a score of 3 or higher. If the appropriate Ohlone Division Office has determined that the material covered in the Advanced Placement course is comparable to a specific Ohlone course offering within that division, Advanced Placement credit may be granted for fulfillment of Ohlone College's degree requirements. However, when a student transfers to another college or university, that institution routinely re-evaluates Advanced Placement units in accordance with its own internal policies. Thus, Advanced Placement units remain intact and do not appear on an Ohlone College transcript.

Please refer to the chart on page 42 to determine which Advanced Placement exams may be counted toward General Education Plan A and major requirements and which Advanced Placement exams may be counted toward General Education Plan B (CSU Breadth) or General Education Plan C (IGETC) requirements. Students should consult a counselor for specific questions and concerns regarding Advanced Placement credit.

Students must submit an official copy of their Advanced Placement scores to the Office of Admissions and Records on the Fremont campus 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.
## Advanced Placement (AP) Credit Chart

<table>
<thead>
<tr>
<th>AP Examination</th>
<th>Ohlone AA/AS (Plan A) Applicability</th>
<th>CSU/GE (Plan B) Applicability</th>
<th>IGETC (Plan C) Applicability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Units/GE Area</td>
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<td></td>
<td>Total Semester Units Awarded</td>
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<td></td>
<td>Minimum Score</td>
<td>Minimum Score</td>
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<tr>
<td>Art, History</td>
<td>3,4^1</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 units/ Area IIA</td>
<td>3 units/ Area I</td>
<td>3 units/ Area B</td>
</tr>
<tr>
<td>Art, Studio</td>
<td>3,3</td>
<td>5 units/ Area IIIB</td>
<td>3,3</td>
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<tr>
<td>Biology</td>
<td>3,6</td>
<td>5 units/ Area I</td>
<td>3,6</td>
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<td>BIOL-130</td>
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<td>3 units/ Area B4</td>
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<tr>
<td>Calculus AB^2</td>
<td>3,3</td>
<td>3 units/Area IVB and Area IVC</td>
<td>3,3</td>
</tr>
<tr>
<td>Calculus BC^2</td>
<td>3,6</td>
<td>3 units/Area IVB and Area IVC</td>
<td>3,3</td>
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<tr>
<td>Chemistry</td>
<td>3,6</td>
<td>3 units/ Area I</td>
<td>3,6</td>
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<td>CHEM-106A^3</td>
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<td></td>
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<td></td>
<td>3 units/ Area C</td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
<td>3,6</td>
<td>3 units/ Area II</td>
<td>3,6</td>
</tr>
<tr>
<td>Comparative Government and Politics</td>
<td>3,3</td>
<td>3 units/Area II</td>
<td>3,3</td>
</tr>
<tr>
<td>Computer Science A^2</td>
<td>3,3</td>
<td>3 units/Area IVB</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science AB^2</td>
<td>3,6</td>
<td>3 units/Area IIA</td>
<td>3,6</td>
</tr>
<tr>
<td>English Language</td>
<td>3,4^3</td>
<td>3 units/Area IVA</td>
<td>3,6</td>
</tr>
<tr>
<td>English Literature</td>
<td>3,6</td>
<td>3 units/Area IIB or Area IVA</td>
<td>3,6</td>
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<tr>
<td>Environmental Science</td>
<td>3,4</td>
<td>3 units/Area I</td>
<td>3,4</td>
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<tr>
<td>European History</td>
<td>3,6</td>
<td>3 units/Area II or Area IIB</td>
<td>3,6</td>
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<tr>
<td>French Language</td>
<td>3,6</td>
<td>3 units/ Area IIA</td>
<td>3,6</td>
</tr>
<tr>
<td>French Literature</td>
<td>3,6</td>
<td>3 units/ Area IIB</td>
<td>3,6</td>
</tr>
<tr>
<td>German Language</td>
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<td>3 units/ Area IIB</td>
<td>3,6</td>
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<td>Human Geography</td>
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<td>3 units/Area II</td>
<td>3,3</td>
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<tr>
<td>Italian Language and Culture</td>
<td>3,6</td>
<td>3 units/ Area IIB</td>
<td>3,6</td>
</tr>
<tr>
<td>Japanese Language and Culture</td>
<td>3,6</td>
<td>3 units/ Area IIB</td>
<td>3,6</td>
</tr>
<tr>
<td>Latin Literature</td>
<td>3,6</td>
<td>3 units/ Area IIB</td>
<td>3,6</td>
</tr>
<tr>
<td>Latin: Vergil</td>
<td>3,3</td>
<td>3 units/ Area II</td>
<td>3,3</td>
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<tr>
<td>Macroeconomics</td>
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<td>3 units/Area II</td>
<td>3,3</td>
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<td>Microeconomics</td>
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<td>3 units/Area II</td>
<td>3,3</td>
</tr>
<tr>
<td>Music Theory</td>
<td>3,6</td>
<td>3 units/Area IIB or Area IIB</td>
<td>3,6</td>
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<tr>
<td>Physics B^3</td>
<td>3,6</td>
<td>3 units/Area I</td>
<td>3,6</td>
</tr>
<tr>
<td>Physics C^3 (electricity/magnetism)</td>
<td>3,4</td>
<td>3 units/Area I</td>
<td>3,4</td>
</tr>
<tr>
<td>Physics C (mechanics)^3</td>
<td>3,4</td>
<td>3 units/Area I</td>
<td>3,4</td>
</tr>
<tr>
<td>Psychology</td>
<td>3,3</td>
<td>3 units/Area II</td>
<td>3,3</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3,6</td>
<td>3 units/ Area IIB</td>
<td>3,6</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>3,6</td>
<td>3 units/ Area IIB</td>
<td>3,6</td>
</tr>
<tr>
<td>Statistics</td>
<td>3,3</td>
<td>3 units/Area IVB and Area IVC</td>
<td>3,3</td>
</tr>
<tr>
<td>US Government and Politics</td>
<td>3,4^4</td>
<td>3 units/Area II</td>
<td>3,3</td>
</tr>
<tr>
<td>US History</td>
<td>3,6</td>
<td>3 units/Area II or Area IIB</td>
<td>3,6</td>
</tr>
<tr>
<td>World History</td>
<td>3,6</td>
<td>3 units/Area II or Area IIB</td>
<td>3,6</td>
</tr>
</tbody>
</table>

1 Requires submission of high school lab notebook to receive credit
2 If a student passes more than one exam in calculus or computer science, only one exam may be applied to a degree
3 If a student passes more than one exam in physics, only 6 units may be applied to the degree and only 4 units applied to CSU/GE certification and only 3 units applied to IGETC certification
4 Only 2.7 units are awarded toward the degree, but the successful completion of the exam will meet the 3-unit requirement of the IGETC area
5 A score of 3 or higher is required to meet Plan A GE requirements; to meet major requirements requires a score of 4 or higher
FINAL EXAMINATIONS

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

CATALOG RIGHTS POLICY

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

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

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

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

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

These federal rights are designed to protect the privacy of all students. It is the policy of the College that – except as permitted by state or federal law – no record, file, document, or other materials, or personally identifiable information contained therein, shall be released to any individual, agency, or organization without the express written consent of the student. The Director of Admissions and Records 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/waiverreleasedofinfo.pdf.

Directory Information

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

STUDENT RESPONSIBILITIES

Academic Progress: Financial Aid Recipients

There are specific academic progress regulations for students who receive financial aid. These regulations are listed in the Financial Aid Handbook available in the Financial Aid Office and at http://www.ohlone.edu/org/finaid/sap.html.

Academic Progress: Veterans’ Benefits Recipients

There are specific academic progress regulations for students who receive veterans’ benefits. Veterans should consult the Veterans’ Office regarding these regulations, as well as http://www.ohlone.edu/org/veterans.

Academic Progress: International Students

United States Citizenship and Immigration Services (USCIS) regulations require that F-1 Student Visa-holding international students make normal progress toward completing their academic course of study. For more information please inquire with the Ohlone College International Programs and Services Office or visit http://www.ohlone.edu/org/international/docs/academicregulationsforinternationalstudents.pdf.

Attendance

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

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

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

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 Accomplishment 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 that 15 degree-applicable units are completed. Students must have a declared program to be eligible to receive financial aid, and those who have declared programs are given earlier registration appointments. Students may declare multiple programs and may change their declared program at any time; however, no student should remain undeclared after completing 15 degree-applicable units. Students who did not declare a program at the time of application can declare or change academic programs online via WebAdvisor (https://webadvisor.ohlone.edu) or by submitting a Change of Major form to the Office of Admissions and Records on the Fremont campus or the Student Services Center on the Newark campus. A Change of Major form is available online at http://www.ohlone.edu/org/admissions/forms/declaremajor.pdf.

Transfer Credit from Another Institution

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

Students may meet with an Ohlone counselor to petition for individual courses completed at non-regionally accredited colleges to be accepted for major requirements. The credit is non-transferable toward a bachelor’s degree. Students who want to use coursework completed at a foreign institution must have their transcripts evaluated by an approved foreign evaluation service. Students must meet with a counselor to petition to use any of this coursework toward the associate degree. Coursework from a foreign institution cannot be used to certify IGETC or CSU GE.
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 in Building 7, third floor.

1. Determine if
   a. you want to earn a Certificate of Accomplishment, 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 Accomplishment
   a. Select the certificate(s) you want to attain from the list of programs on pages 56-57.
   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 on the Fremont campus 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 56-57.
   b. Complete all the courses required for the Certificate of Achievement. The major requirements are listed on the Curriculum Guides on pages 58-92.
   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 on the Fremont campus by the date published in the Class Schedule.

4. Associate degree
   a. Read the associate degree requirements on page 46.
   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 49 for guidance or consult a counselor.
   c. Select a major from the programs on pages 56-57. The associate degree requirements are listed on the Curriculum Guides on pages 58-92. 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 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 on the Fremont campus by the date published in the Class Schedule.

5. Transfer with an associate degree
   a. Refer to the transfer information on pages 50-52.
   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 49 for guidance or consult a counselor.
   c. Select a major from the programs on pages 56-57. The associate degree requirements are listed on the Curriculum Guides on pages 58-92. 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 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 on the Fremont campus by the date published in the Class Schedule.
   h. Request a General Education Certification from the Office of Admissions and Records on the Fremont campus.
   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 50-52.
   b. Follow the CSU (Plan B) General Education Requirements on page 54 for a campus of the California State University or follow the IGETC (Plan C) General Education Requirements on page 55 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 55 if you have not yet decided between a CSU or UC. You should also see a counselor to help you make the decision about campuses, majors, and General Education options.
   e. Fulfill the General Education requirements of either Plan B or Plan C.
   f. Complete the courses with the minimum Grade Point Average.
   g. Meet with a counselor to determine if you can also earn a degree before you transfer.
   h. Request a General Education Certification from the Office of Admissions and Records on the Fremont campus.
   i. Request that your official Ohlone College transcripts are sent to your transfer institution.
ASSOCIATE OF ARTS AND ASSOCIATE OF SCIENCE DEGREES

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

Students are provided with several options for fulfilling the requirements for an associate degree at Ohlone. Each is designed to meet specific educational goals. It is imperative for students to meet early and often with a counselor to both plan and maintain their educational plan. The three categories of majors and three patterns of general education are described below and can be combined to meet various educational goals. (Refer to the chart on page 49.)

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

Multidisciplinary 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 18-20 units selected from the designated departments and courses listed in the Curriculum Guides. Upon completion of these 18-20 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.

 Majors for Students Intending to Transfer

Some 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 these degrees for students intending to transfer 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 these majors; 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 56-57. Occupational majors are designed to prepare students for entry-level employment, but these majors can also prepare students for transfer into a comparable baccalaureate major. 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 regulations current at the time the student files for and receives a degree and/or certificate. (Please see Catalog Rights Policy on page 43.) Whichever catalog year is selected, all graduation requirements must be completed within that pattern. Of the 60 units required for graduation, 12 units must be completed at Ohlone College.

Degree applications must be submitted no later than the end of the eighth week of the semester in which the student expects to complete requirements. Please refer to the Academic Calendar in the Class Schedule for specific dates. College transcripts of all prior work must be on file in the Office of Admissions and Records on the Fremont campus 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 term. 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 Term 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 49. The Plan A General Education pattern is recommended for students whose immediate goal is to complete an associate degree with either a general, occupational, or transfer major. By coupling this pattern with an approved transfer major, students may meet most of the lower division major preparation for transfer within that major. In some occupational majors students may be required to complete more than 60 units to obtain an associate degree. Students are advised to consult with a counselor.

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

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

Area I Natural Sciences

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

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

1. 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 II Social and Behavioral Sciences/American Institutions

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

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

1. 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.

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

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

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

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

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

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

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

A. English Composition

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

1. Write a well-organized paper in Standard English which presents a main idea supported by effective documentation and details.
2. Demonstrate the ability to write effectively using correct grammar.
3. Choose the appropriate style and method of communication for a variety of contexts.

B. Analytical Thinking and Oral Communication

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

1. Think logically and critically to solve problems, explain conclusions, and evaluate evidence or critique the thinking of self and others.
2. Demonstrate the ability to make an effective decision in a variety of settings.

C. Math Proficiency

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

Area V Physical Education/Wellness

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

A. Physical Education

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

1. Maintain a regular regimen of physical activity and/or exercise.
2. Demonstrate fundamental skills incorporating the rules and strategies of the activity.

B. Wellness

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

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.

Did you know???

Ohlone’s transfer rate to public universities is above the state average.

Ohlone counselors and representatives from Historically Black Colleges and Universities spoke to students during Black History Week. Photo courtesy of College Advancement.
Area VII  Information Competency, AA, AS Degree (1 course)

Definition: Information Competency is the ability to find, evaluate, use, and communicate information in all its various formats. It combines aspects of library literacy, research methods, and technological literacy. Information Competency includes consideration of the ethical and legal implications of information and requires the application of both critical thinking and communication skills. As stated in the 1998 Academic Senate position paper, students must be able to demonstrate certain key skills:

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

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

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

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

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

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

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

General Education: Reciprocity with Community Colleges

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

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

General Education:
Exemptions for Students with Baccalaureate Degrees

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

General Education Plans/Major Options Chart

| Plan A | Ohiolone General Education Pattern | Plan B | CSU General Education Pattern | Plan C | IGETC General Education Pattern |
|--------|-----------------------------------|--------|-------------------------------|--------|---------------------------------
| General Focus | For students whose immediate educational goal is to complete an associate degree. Provides maximum flexibility in course selection. | 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. | 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. |
| Transfer Focus | For students desiring to complete most lower division major preparation courses; will require additional General Education after transfer. | For students whose goal is to complete most lower division major preparation and General Education course requirements for transfer to a CSU. | For students whose goal is to complete most lower division major preparation and General Education course requirements for transfer to a UC or CSU. |
| Occupational Focus | For students whose immediate educational goal is to complete an associate degree with a specific vocational major. | For students whose goal is to complete lower division General Education for transfer to a CSU and to complete a specific vocational major. | 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. |
CERTIFICATE PROGRAMS

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

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 Ohlone faculty and the California Community College Chancellor's Office. Certificates of Achievement consist of 18 or more units. Generally, these certificates parallel the major course of study within an occupational associate degree program. Thus, a student always has the option of completing the additional general education, elective, and supporting course requirements to complete an associate degree as well.

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

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

An application for the Certificate of Achievement must be submitted no later than the end of the eighth week of the semester in which the student expects to complete the requirements. Please refer to the Academic Calendar in the Class Schedule for specific dates. Official college transcripts of all prior work must be on file in the Office of Admissions and Records before the application can be processed.

Certificate of Accomplishment

Certificates of Accomplishment 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 Ohlone faculty and consist of a maximum of 17 units. Certificates of Accomplishment 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. However, per Title 5 of the California Education Code, a Certificate of Accomplishment cannot appear on a student’s transcript.

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

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

TRANSFER TO FOUR-YEAR INSTITUTIONS

Many of Ohlone’s students transfer to a 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 Transfer Center. Counselors will work with students to complete a Student Education Plan that can streamline the time and number of courses students need to complete their educational goals.

Photo courtesy of Julie Polk.
Transfer to the California State University

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

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

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

- Have a college grade point average of 2.00 or better (2.40 for non-California residents) in all transferable college units attempted;
- Are in good standing at the last college or university attended prior to transfer;
- Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the CSU subject deficiencies from high school;
- Meet the eligibility index required for a CSU freshman.

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. Since 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 a minimum of 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 54.) 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 or online at http://www.ohlone.edu/admissions/forms/igetcrequestform.pdf 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 their partial completion of CSU general education. 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 research the transfer institution’s most recent admissions information.

Impacted programs at a CSU campus can vary from year to year. Students should check with the CSU of their choice to see if their major is impacted before submitting an application. Updated information regarding impacted programs is available online at http://www.calstate.edu/SAS/impactioninfo.shtml.

Transfer to the University of California

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

Students should consult ASSIST (www.assist.org) and/or the catalog of the UC campus of their choice to find out specific details regarding transfer, major, and breadth requirements. UC transfer information can be found online at http://www.universityofcalifornia.edu/admissions/.

To be eligible to apply 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 Pass. All required courses in a major must be taken for a letter grade.

The Ohlone College 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; students should 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 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. Electronic catalogs can be found online at http://www.collegesource.org.
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 55.) 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; 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 to 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, all courses must be completed with a grade of C or better (C– is not acceptable). Students who do not complete three or more 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 university they will be attending and may be obtained through the Office of Admissions and Records on the Fremont campus or online at http://www.ohlone.edu/org/admissions/forms/igetcrequestform.pdf and should be submitted at the end of the student’s final semester at Ohlone College, prior to beginning courses at the transfer institution.

TRANSFER PROGRAMS

While at Ohlone College, students may complete their lower division (freshman and sophomore) general education requirements and lower division major field courses prior to transfer. Many courses offered at Ohlone have been articulated with the University of California, California State University, and private institutions. Students may access www.assist.org to see which courses transfer, to which CSU and UC campuses, for which majors, and how courses are counted. Students are encouraged to meet with a counselor in order to develop a specific transfer plan. For information on any of these transfer programs, students should contact the Counseling Department and/or Transfer Center.

Transfer Admission Guarantees (TAGs)

Transfer students have an opportunity to secure a seat at a specific college or university prior to the regular admission application period through the Transfer Admission Guarantee (TAG) program. By signing a TAG agreement and meeting TAG requirements, admission to the chosen university is granted. Please visit http://www.ohlone.edu/org/transfer/tag.html for more information.

Participating Universities:
- California State University, East Bay
- California State University, Monterey Bay
- San José State University
- Golden Gate University
- Santa Clara University
- University of California, Davis
- University of California, Irvine
- University of California, Merced
- University of California, Riverside
- University of California, San Diego
- University of California, Santa Barbara
- University of California, Santa Cruz

Concurrent Enrollment and Cross-Registration

Students may choose to take a lower division course on the UC Berkeley or CSU East Bay campuses through the Concurrent Enrollment/Cross-Registration programs. While the programs have different titles and eligibility requirements, both give students an opportunity to attend a university while being an Ohlone student. See a counselor for details and refer to http://www.ohlone.edu/org/transfer/concurrentenrollment.html for more information.

The Lower-Division Transfer Patterns (LDTP) Project

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

The LDTPs add another option to the transfer preparation process. LDTPs will not replace current major articulation with CSU campuses or current TAG admission programs. LDTP is one of many ways to prepare for study at the CSU. For students who know exactly what major they wish to pursue and at which CSU campus, current major preparation articulation and transfer admission agreements are quite useful. For students who are initially uncertain about a major and/or CSU campus, the LDTP provides a measure of flexibility and options for preparation.
<table>
<thead>
<tr>
<th>AREA I</th>
<th>NATURAL SCIENCE</th>
<th>AA Degree (at least 3 units)</th>
<th>AS Degree (6 units)</th>
<th>GE requirements are met by completion of lecture or laboratory courses, not by lab courses alone.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>AREA II</th>
<th>SOCIAL SCIENCE</th>
<th>AA, AS Degree (3 units)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. PHYSICAL EDUCATION/WELLNESS</td>
<td>AA, AS Degree</td>
<td>(3 units from A and 3 units from B)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. ENGLISH COMPOSITION</td>
<td>ENGL 101A; JOUR 101A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. SOCIAL SCIENCE</td>
<td>AA, AS Degree (3 units)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. FINE ARTS: ART 100, 101, 103A*, 103B*; IS 100; MUS 100, 101, 102*, 103, 104*, 120A, 120B, 125; TD 100, 102, 109</td>
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<thead>
<tr>
<th>AREA VII</th>
<th>INFORMATION COMPETENCY</th>
<th>AA, AS Degree (1 course)</th>
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</thead>
<tbody>
<tr>
<td>Note: Students who have satisfied the General Education requirement for one of the colleges participating in the reciprocity agreement (Chabot, De Anza, Evergreen, Foothill, Gaviilan, Las Positas, Mission, San Jose City, West Valley) OR students who have completed a BA/BS from a regionally accredited college and university do not need to fulfill Ohlone’s GE.</td>
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**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 2009-2010 catalog for approved exams, acceptance scores, and equivalent courses.

Note: Successfully completed Cultural Diversity courses may be used to meet Area VII and one other applicable General Education Requirement. Units will be recorded only once.
### 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.

Courses that are listed in more than one area may only be counted for one area.

<table>
<thead>
<tr>
<th>AREA A</th>
<th>CRITICAL THINKING &amp; ORAL COMMUNICATION (*9 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 COMMUNICATION – Oral:</td>
<td>SPCH 101, 103, 106 (3)</td>
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<td></td>
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<tr>
<td>A2 COMMUNICATION – Written:</td>
<td>ENGL 101A (4)</td>
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<tr>
<td>A3 CRITICAL THINKING:</td>
<td>ENGL 101C; PHIL 104, 107; SPCH 102, 104, 106 (3)</td>
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<tr>
<th>AREA B</th>
<th>NATURAL SCIENCE (*9 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 SCIENCE</td>
<td>(include at least one laboratory course)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. BIOLOGICAL</td>
<td>(One course)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Lab: ANTH 101; BIOL 101A, 103A, 104, 106, 114, 130, 142; BIOT 114; ENV 114;</td>
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<td></td>
<td></td>
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<tr>
<td>Non-Lab: BIOL 105, 107, 108, 109, 114, ENVS 108</td>
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<tr>
<td>B. PHYSICAL</td>
<td>(One course)</td>
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<tr>
<td>Lab: ASTR 101A&amp;102; ASTR 101B&amp;102; CHEM 101A, 106A, 109, 112A; CNET 114; ENGL 114; GEOG 101; GEOG 101; 102 &amp; 102L; 103&amp;103L; PHS 135; PHYS 120, 121, 140, 141, 142</td>
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<tr>
<td>Non-Lab: ASTR 101A, ASTR 101B; CHEM 102, 108; GEOG 102, 103</td>
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<table>
<thead>
<tr>
<th>AREA C</th>
<th>HUMANITIES (*9 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101B AND one course from ARTS (C1) AND one course from HUMANITIES (C2)</td>
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<td></td>
</tr>
<tr>
<td>C1 ART</td>
<td>ART 100, 101, 103A, 103B, 131, 161A; CAOT 161A; GA 161A; HIST 107, 141, 142, 143 (3); IS 100, 142, 143; MUS 100, 101, 102, 104, 110A, 120A, 120B, 122, 123, 125; SPCH 132; TD 100, 101, 102, 102, 107, 109, 110, 114, 115A, 120A3, 126, 127, 132, 150, 152, 154, 159, 161, 162, 163, 164</td>
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<table>
<thead>
<tr>
<th>AREA D</th>
<th>SOCIAL SCIENCES (*9 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1 HISTORY/GOVERNMENT – Take one of the following combinations to fulfill the United States History, Constitution, and American Ideals requirement; both courses in the pattern must be completed at Ohlone College:</td>
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<tr>
<td>• HIST 105 and HIST 117A</td>
<td>PS 102 and HIST 117A</td>
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<td></td>
<td></td>
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<tr>
<td>• PS 102 and HIST 117B</td>
<td>HIST 117A and HIST 117B</td>
<td></td>
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<tr>
<td>D2 One course from among: (If HIST 117A and B or HIST 117A and 105 are taken under D1 above, a course must be selected from a discipline other than history)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>AREA E</th>
<th>LIFELONG UNDERSTANDING (*3 units)</th>
<th>At least 3 units from among:</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102; BA 139; BIOL 109; CFS 109; HLTH 101, 150; KIN 240; PD 105; PSY 114, 139; SOC 101, 105; WS 120, 150</td>
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</tbody>
</table>

*Indicates minimum number of lower-division units required in each area. For Areas B, C, & D combined, the maximum number of units to be certified is 30. Units completed beyond that number may transfer as elective units. Students should refer to their current class schedule for the number of units for each course.

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

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

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

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

The general education breadth requirements are the same as the requirements for the Intersegmental General Education Transfer Curriculum (IGETC). In the process of completing this coursework the student must also fulfill the following requirement:

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

Courses that are listed in more than one area may only be counted for one area.

<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>
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<tr>
<td>UC – 2 courses required, one each from group A and B</td>
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</tr>
<tr>
<td><strong>A. ENGLISH COMPOSITION – ENGL 101A</strong></td>
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<tr>
<td><strong>B. CRITICAL THINKING – ENGL 101C</strong></td>
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<tr>
<td><strong>C. ORAL COMMUNICATION (CSU only) – SPCH 101</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>AREA 2: MATHEMATICAL CONCEPTS/QUANTITATIVE REASONING (3 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATH 101A, 101B, 101C, 103, 104, 156, 159, 166, 188</strong></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AREA 3: ARTS AND HUMANITIES (9 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three courses, at least one course from the Arts and one from Humanities.</td>
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</tr>
<tr>
<td><strong>A. ARTS: ART 100, 101, 103A, 103B, 131; HIST 141, 142, 143; IS 100, 102, 104, 110A, 120A, 120B, 122, 123, 125; TD 100, 101, 102, 109</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>AREA 4: SOCIAL AND BEHAVIORAL SCIENCES (9 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three courses from at least two disciplines or an interdisciplinary sequence.</td>
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<tr>
<td><strong>ANTH 101, 102, 103, 104, 106; BRDC 155; BA 102A, 102B; CHS 101, 102; GEOG 102, 104, 105; HIST 112, 114A, 114B, 119A, 119B; IS 110, 120; JOUR 155; PS 102, 103, 104, 105; PSY 101, 102, 105, 106, 108, 112, 115, 120; SOC 101, 102, 105, 106; SPCH 105, 122; WS 120</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>AREA 5: PHYSICAL/BIOLOGICAL SCIENCES (7-9 units)</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Physical Science course and one Biological Science course; at least one must include a laboratory.</td>
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<tr>
<td><strong>A. PHYSICAL SCIENCE</strong> (One course)</td>
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<tr>
<td>Non-Lab: ASTR 101A, 101B; CHEM 102, 108; GEOL 102, 103; PHYS 108</td>
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<tr>
<td><strong>B. BIOLOGICAL SCIENCE</strong> (One course)</td>
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<tr>
<td>Lab: ANTH 101; BIOL 101A, 101B, 103A, 103B, 104, 106, 130, 142; ENVS 142</td>
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<tr>
<td>Non-Lab: BIOL 105, 107, 108, 109, 141; ENVS 108</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>AREA 6: UC REQUIREMENT ONLY – LANGUAGE OTHER THAN ENGLISH</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
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</thead>
<tbody>
<tr>
<td>Proficiency equivalent to two years of high school study in the same language or one of the following:</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CSU GRADUATION REQUIREMENT ONLY – U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS</th>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>Six semester units. Complete one of the four patterns:</td>
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<tr>
<td><strong>HIST 117A and HIST 117B</strong></td>
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<tr>
<td><strong>HIST 117A and PS 102</strong></td>
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<tr>
<td><strong>HIST 117B and PS 102</strong></td>
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</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Area</th>
<th>AA Degree</th>
<th>AS Degree</th>
<th>Certificate of Achievement</th>
<th>Certificate of Accomplishment</th>
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<tbody>
<tr>
<td>Accounting</td>
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<td>Page 58</td>
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<tr>
<td>Administration of Justice</td>
<td>Page 59</td>
<td>Page 59</td>
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<tr>
<td>Administrative Assistant</td>
<td>Page 59</td>
<td>Page 59</td>
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<tr>
<td>Administrative Assistant with Supervisory Focus</td>
<td>Page 60</td>
<td>Page 60</td>
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<tr>
<td>American Sign Language and Deaf Studies</td>
<td>Page 60</td>
<td>Page 60</td>
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<tr>
<td>Anthropology: Cultural</td>
<td></td>
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<td>Page 93</td>
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<tr>
<td>Anthropology: Physical</td>
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<td>Page 93</td>
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<tr>
<td>Archaeology</td>
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<td></td>
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<tr>
<td>Art</td>
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<td></td>
<td>Page 61</td>
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<tr>
<td>Art History</td>
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<td>Page 93</td>
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<tr>
<td>ASL-English Interpreter Preparation Program</td>
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<tr>
<td>Astronomy</td>
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<tr>
<td>Audio Technician</td>
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<tr>
<td>Ballet Units: Teacher/Choreographer</td>
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<tr>
<td>Biology</td>
<td>Page 62</td>
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<tr>
<td>Biology: General</td>
<td>Page 94</td>
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<tr>
<td>Biology: Human</td>
<td>Page 94</td>
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<tr>
<td>Biology: Life Sciences Survey</td>
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<tr>
<td>Biotechnology</td>
<td>Page 63</td>
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<tr>
<td>Biotechnology: Bio-manufacturing</td>
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<td>Biotechnology: Biostatistics</td>
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<td>Biotechnology: Cell Production/Fermentation</td>
<td>Page 64</td>
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<tr>
<td>Biotechnology: Quality Control/Research Associate</td>
<td>Page 65</td>
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<td>Broadcasting</td>
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<tr>
<td>Broadcasting: Digital Video and Editing</td>
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<td>Broadcasting: Entertainment Television</td>
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<tr>
<td>Broadcasting: Lighting and Video for Television</td>
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<tr>
<td>Broadcasting: Live Television Production</td>
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<tr>
<td>Broadcasting: Music Video Production</td>
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<tr>
<td>Broadcasting: Radio Air Talent</td>
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<tr>
<td>Broadcasting: Radio Digital Production</td>
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<tr>
<td>Broadcasting: Radio Program Management</td>
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<tr>
<td>Broadcasting: Radio Studio Operations</td>
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<tr>
<td>Business</td>
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<tr>
<td>Business Administration</td>
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<tr>
<td>Business Communication</td>
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<tr>
<td>Business Supervision/Management</td>
<td>Page 67</td>
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<tr>
<td>Ceramics</td>
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<td>Chemistry Lab Skills: Advanced</td>
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<tr>
<td>Chemistry Lab Skills: Basic</td>
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<td>Computer and Information Literacy</td>
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<td>Computer Applications in Biotechnology</td>
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<td>Computer Science</td>
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<tr>
<td>Computer Studies/Internet Web Programming</td>
<td>Page 70</td>
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<td>Computer Studies/Software Development</td>
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<td>Costuming</td>
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<td>Data Communications and Web Programming</td>
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<td>Database Administration</td>
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<td>Earth and Environmental Sciences</td>
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<tr>
<td>Entertainment Design and Technology: Audio Technician</td>
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<td>Entertainment Design and Technology: Costuming</td>
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<td>Entertainment Design and Technology: Live Event Management</td>
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<td>Entertainment Design and Technology: Moving Light Technician</td>
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<td>Entertainment Design and Technology: Stage Craft</td>
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<tr>
<td>Entertainment Design and Technology: Theatrical and TV Lighting Technician</td>
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<td>Environmental Science</td>
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<tr>
<td>ACADEMIC PROGRAMS</td>
<td>AA Degree</td>
<td>AS Degree</td>
<td>Certificate of Achievement</td>
<td>Certificate of Accomplishment</td>
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<tr>
<td>Gender and Women’s Studies</td>
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<tr>
<td>Geography: Information Systems (GIS)</td>
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<tr>
<td>Geography: Cultural</td>
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<td>Geography: Physical</td>
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<td>Page 77</td>
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<tr>
<td>Graphic Arts/Computer Graphics</td>
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<td>Graphic Design</td>
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<td>Interior Design</td>
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<td>Interior Design Technology</td>
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<tr>
<td>International Business</td>
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<td>Internet Applications Development</td>
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<td>Interpersonal Communication</td>
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<td>Java Developer</td>
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<td>Jazz Dance Teacher/Choreographer</td>
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<td>Kinesiology: Athletic Training</td>
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<td>Office Computer Applications</td>
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<td>Paleobiology/Natural History</td>
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<td>Real Estate Sales Broker</td>
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<td>Sculpture</td>
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<tr>
<td>Speech and Communication Studies</td>
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<td>Stage Craft</td>
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<td>Tap Dance Teacher/Choreographer</td>
<td></td>
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<td>Page 107</td>
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<td>Technical Support Specialist</td>
<td></td>
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<td>Theatrical and TV Lighting Technician</td>
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<td>3D Modeling and Animation</td>
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<td>UNIX/Linux Systems Admin.</td>
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<td>Page 92</td>
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<tr>
<td>Video Game Development</td>
<td></td>
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<td>Vocal Music Performance</td>
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<tr>
<td>Vocal Music Performance: Advanced</td>
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<tr>
<td>Web Content</td>
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<td>Web Design</td>
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<tr>
<td>Work Readiness</td>
<td></td>
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</tbody>
</table>
Ohlone offers associate degrees with a transfer focus for students intending to transfer; with a general focus for students whose immediate educational goal may be to complete an associate degree or to transfer; and with an occupational focus for students interested in preparing for employment in certain fields, although these degrees may also be used by students intending to transfer. These associate degrees combine the focus of an emphasis or major within a discipline and 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 are 18 units or more.

**ACCOUNTING**

**AA Degree**

and

Certificate of Achievement

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 grade of C or better.

b) Complete Plan A, B, or C General Education requirements. These requirements 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>
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</thead>
<tbody>
<tr>
<td>BA-101A</td>
<td>Financial Accounting</td>
<td>5</td>
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<tr>
<td>BA-101B</td>
<td>Managerial 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>
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</table>

(continued on next page)
**SUPPORTING COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-102A</td>
<td>Principles of Economics-Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BA-116</td>
<td>Business English and Communication</td>
<td>4</td>
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<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 (3)</td>
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<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-101L</td>
<td>Computer Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

**ADMINISTRATION OF JUSTICE**

**AA Degree**

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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>
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<tbody>
<tr>
<td>AJ-101</td>
<td>Administration of Justice</td>
<td>3</td>
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<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>
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<tr>
<td>AJ-118</td>
<td>Criminology</td>
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<tr>
<td>Major Field Electives</td>
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Total: 26

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


(continued on next column)

**SUPPORTING COURSES**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BA-106</td>
<td>Applied Accounting</td>
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<td>BA-116</td>
<td>Business English and Communication</td>
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<td>BA-125</td>
<td>Introduction to Business</td>
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<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>
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<td>CAOT-194A</td>
<td>MS Office Advanced</td>
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<tr>
<td>CS-101L</td>
<td>Computer Applications</td>
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Total: 26

**ADMINISTRATIVE ASSISTANT**

**AA Degree**

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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>
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</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>
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Total: 26

**SUPPORTING COURSES**

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
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<td>BA-106</td>
<td>Math for Accounting and Business</td>
<td>3</td>
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<tr>
<td>BA/PSY-139</td>
<td>Psychology in the Workplace</td>
<td>3</td>
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<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
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<tr>
<td>CAOT-156</td>
<td>Microsoft Publisher</td>
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<tr>
<td>CAOT-188</td>
<td>Desktop Publishing with QuarkXpress</td>
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<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
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</table>

Total: 15.5

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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 Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BA-106</td>
<td>Applied Accounting</td>
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</tr>
<tr>
<td>BA-116</td>
<td>Business English and Communication</td>
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<td>BA-125</td>
<td>Introduction to Business</td>
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<td>BA-141A</td>
<td>Business Law</td>
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<td>BSM-101</td>
<td>Fundamentals of Supervision</td>
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<tr>
<td>BSM-103</td>
<td>Management of Human Resources</td>
<td>3</td>
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<tr>
<td>CAOT-104</td>
<td>Basic Keyboarding</td>
<td>1</td>
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<tr>
<td>CAOT-194A</td>
<td>MS Office Advanced</td>
<td>2</td>
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<td>CS-101L</td>
<td>Computer Applications</td>
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**Supporting Courses**

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<th>Course Title</th>
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<tbody>
<tr>
<td>BA-123</td>
<td>Math for Accounting and Business</td>
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</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>
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</tbody>
</table>

Major Field Elective: 3-4, Total: 12-13


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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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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 Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ASL-101A</td>
<td>Principles of American Sign Language I</td>
<td>5</td>
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<tr>
<td>ASL-102A</td>
<td>Principles of American Sign Language II</td>
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</tr>
<tr>
<td>ASL-103A</td>
<td>Principles of American Sign Language III</td>
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</tr>
<tr>
<td>ASL-104A</td>
<td>Principles of American Sign Language IV</td>
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<tr>
<td>ASL-140</td>
<td>Deaf Education</td>
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<tr>
<td>ASL-142</td>
<td>Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>ASL-152</td>
<td>Advanced Fingerspelling</td>
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<tr>
<td>ASL-154</td>
<td>Advanced American Sign Language Vocabulary</td>
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<tr>
<td>ASL-156</td>
<td>Advanced Reception of ASL</td>
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<tr>
<td>ASL-160-161</td>
<td>American Sign Language Field Work</td>
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**Major Field Electives**

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

<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td>ASL-145</td>
<td>Deaf History</td>
<td>3</td>
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<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>

(continued on next page)
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:
- ECS-195A
- ECS-300
- ECS-301
- ECS-302
- ECS-303
- ECS-304
- ECS-305
- ECS-306
- ECS-307A
- ECS-307B
- ECS-307C
- ECS-308
- ECS-317
- ECS-321
- ECS-322
- ECS-323
- ECS-325A
- ECS-325A1
- ECS-327
- PSY-105
- PSY-106
- PSY-108

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

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

**Health, Science, and Hygiene**
Select three units from:
- BIOL-103A
- BIOL-103B
- BIOL-104
- BIOL-105
- BIOL-106
- BIOL-107
- BIOL-108
- BIOL-109
- BIOL-130
- BIOT-110A
- BIOT-110B
- BIOT-112
- BIOT-120
- HLTH-101
- KIN-257

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

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

ART

**AA Degree: Transfer Focus**

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

**Requirements for AA Degree**

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

(continued on next column)
ASL-ENGLISH INTERPRETER PREPARATION PROGRAM

AA Degree and Certificate of Achievement

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

MINIMUM REQUIREMENTS

1. All pre-interpreter students are required to take the placement test OR provide sufficient proof of college level English and Math coursework to waive this requirement:
   a. Completion of ENGL-101A or equivalent with a grade of C or better.
   b. Reading Clearance: Clearing ENGL-163 through the Ohlone College English Placement Test or completion of ENGL-163 or substitute reading course from an approved list.
   c. Completion of MATH-151 or any higher level Math course or Math clearance on the Ohlone Math Placement Test.
   d. Completion of 30 General Education Units (1 year of college-level work) with a cumulative GPA of 2.7 or higher.
2. Students must attend an all day screening. All applications must be evaluated regardless of previous coursework in ASL.
3. A separate application, found online, must be submitted to the Division of Deaf Studies by mid-April. The exact deadline is provided online at http://www.ohlone.edu/instr/deafstudies/app/#eligibility

Students have met the requirements and taken and passed all courses satisfactorily.

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 requirements 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.

(continued on next column)

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-121A</td>
<td>Developing Your Business Plan</td>
<td>.5</td>
</tr>
<tr>
<td>BA-121B</td>
<td>Legal Aspects of Small Business</td>
<td>.5</td>
</tr>
<tr>
<td>INT-106</td>
<td>Discourse Analysis: ASL</td>
<td>3</td>
</tr>
<tr>
<td>INT-107</td>
<td>Interpreter Orientation</td>
<td>3</td>
</tr>
<tr>
<td>INT-112</td>
<td>Comparative Linguistics: ASL and English</td>
<td>3</td>
</tr>
<tr>
<td>INT-115</td>
<td>Interpreting Preparation Skills</td>
<td>2</td>
</tr>
<tr>
<td>INT-116</td>
<td>Discourse Analysis: English</td>
<td>3</td>
</tr>
<tr>
<td>INT-127</td>
<td>Ethics I</td>
<td>1</td>
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<tr>
<td>INT-145</td>
<td>Practicum: Deaf Mentorship</td>
<td>4.5</td>
</tr>
<tr>
<td>INT-147</td>
<td>Introduction to Interpreting for People Who Are Deaf/Blind</td>
<td>2</td>
</tr>
<tr>
<td>INT-153</td>
<td>Interpreting: ASL to English</td>
<td>6</td>
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<tr>
<td>INT-199A</td>
<td>Introduction to Multicultural Issues in Interpreting</td>
<td>1</td>
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<tr>
<td>INT-227</td>
<td>Ethics II: Interpreting Ethics and Decision-Making</td>
<td>3</td>
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<tr>
<td>INT-245</td>
<td>Phantom Interpreting</td>
<td>1</td>
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<tr>
<td>INT-253</td>
<td>Interpreting: English to ASL</td>
<td>6</td>
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<tr>
<td>INT-263</td>
<td>Interpreting Across the Language Continuum</td>
<td>4</td>
</tr>
<tr>
<td>INT-295</td>
<td>Interpreting Internship</td>
<td>4.5</td>
</tr>
<tr>
<td>INT-299</td>
<td>Capstone Course</td>
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<tr>
<td>Choose 3.5 units from the following:</td>
<td></td>
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<tr>
<td>INT-199B</td>
<td>Introduction to Oral Facilitation</td>
<td>.5</td>
</tr>
<tr>
<td>INT-199C</td>
<td>Introduction to Medical Interpreting</td>
<td>1</td>
</tr>
<tr>
<td>INT-199D</td>
<td>Introduction to Educational Interpreting K-12</td>
<td>1</td>
</tr>
<tr>
<td>INT-199E</td>
<td>Introduction to Post-Secondary Interpreting</td>
<td>.5</td>
</tr>
<tr>
<td>INT-199F</td>
<td>Introduction to Social Service and Employment</td>
<td>.5</td>
</tr>
<tr>
<td>INT-199G</td>
<td>Introduction to Telephone and Video Relay Interpreting</td>
<td>.5</td>
</tr>
<tr>
<td>INT-199H</td>
<td>Introduction to Mental Health Interpreting</td>
<td>.5</td>
</tr>
<tr>
<td>INT-199I</td>
<td>Introduction to Deaf/Hearing Team Interpreting</td>
<td>.5</td>
</tr>
</tbody>
</table>

51.5-55

BIOLOGY

AS Degree: Transfer Focus

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

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

(continued on next page)
**REQUIREMENTS FOR AS DEGREE**

a) Complete the Major Field courses with a grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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 Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-101A</td>
<td>Principles of Biology – Molecular and Cellular</td>
<td>5</td>
</tr>
<tr>
<td>BIOL-101B</td>
<td>Principles of Biology – Organisms and Systems</td>
<td>5</td>
</tr>
<tr>
<td>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>CHEM-112A</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-120</td>
<td>Introduction to Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-121</td>
<td>Introduction to Physics II</td>
<td>4</td>
</tr>
</tbody>
</table>

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

**BIOTECHNOLOGY**

**AS Degree**

The Associate of Science Degree in Biotechnology is a program designed to train students in the methods and techniques used in biotechnology. Students in this degree program complete the biotechnology science core courses and electives listed below. Courses in this program train students in standard biotechnology laboratory techniques and record keeping. The program prepares students for entry-level positions in biomanufacturing and pharmaceutical manufacturing positions.

**REQUIREMENTS FOR THE AS DEGREE**

a) Complete the Biotechnology Core Courses with a grade of C or better.
b) Complete Plan A, B, or C General Education Requirements. These requirements are specified in the Ohlone College catalog.
c) Complete at least 60 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 Biotechnology Core Courses at Ohlone College.

(continued on next column)

**BIOTECHNOLOGY CORE COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOT-105</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOT-110A1</td>
<td>Introduction to DNA Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-110A2</td>
<td>PCR I and DNA Sequencing</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-110A3</td>
<td>Protein Isolation and Assays</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-113</td>
<td>GMP/GLP</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-115A</td>
<td>Mammalian Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-115B</td>
<td>Bioreactor Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-117</td>
<td>Immunology</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-119</td>
<td>Clean Room Operations</td>
<td>.5</td>
</tr>
<tr>
<td>BIOT-121</td>
<td>Biotechnology Careers</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-123</td>
<td>Writing SOPs</td>
<td>3</td>
</tr>
<tr>
<td>BIOT-131D</td>
<td>Review of Biotechnology Concepts</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-114</td>
<td>Introduction to Plant Biology OR</td>
<td>3</td>
</tr>
<tr>
<td>BIOT-122</td>
<td>Introduction to Nanotechnology OR</td>
<td>(3)</td>
</tr>
<tr>
<td>BIOT-133</td>
<td>Introduction to SAS Programming</td>
<td>(3)</td>
</tr>
<tr>
<td>CAOT-148</td>
<td>Computer Applications in Biotechnology</td>
<td>.5</td>
</tr>
<tr>
<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</td>
<td>5</td>
</tr>
</tbody>
</table>

31.5

**BIOTECHNOLOGY: BIO-MANUFACTURING**

Certificate of Achievement

**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.

This certificate program provides students with an excellent preparation in various protocols and hands-on laboratory skills used in many biotechnology companies. A goal of the program is to prepare students for entry-level positions in biotech and pharmaceutical companies.

This certificate prepares students as laboratory research assistants and biomanufacturing technicians. It provides excellent preparation in laboratory skills used in entry-level positions at many biotechnology and pharmaceutical companies.

**MAJOR FIELD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOT-105</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOT-110A1</td>
<td>Introduction to DNA Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-110A2</td>
<td>PCR I and DNA Sequencing</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-110A3</td>
<td>Protein Isolation and Assays</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-111A</td>
<td>Genomic and cDNA Library Construction and Analysis</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-111B</td>
<td>PCR Primer Design and Optimization and Reverse Transcription</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-113</td>
<td>GMP/GLP</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-115A</td>
<td>Mammalian Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-121</td>
<td>Biotechnology Careers</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-123</td>
<td>Writing SOPs</td>
<td>.5</td>
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<tr>
<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
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</tr>
</tbody>
</table>

17.5

(continued on next page)
### Optional Courses (Recommended)

- Biot-112 Introduction to Bioinformatics (2)
- Biot-114 Introduction to Plant Biology (3)
- Biot-115B Bioreactor Cell Culture Techniques (2)
- Biot-117 Immunology (1)
- Biot-119 Clean Room Operations (.5)
- Biot-120 Introduction to Scanning Electron Microscopy (1)
- Biot-122 Introduction to Nanotechnology (3)
- Biot-131 Computing Concepts in Biotechnology (4)
- Biot-132 DNA Computing (1)
- Biot-133 Introduction to SAS Programming (3)
- Biot-143 Advanced SAS Programming (3)
- Biot-203 Biotechnology Internship (3)

### Biotechnology: Biostatistics

**Certificate of Achievement**

The Certificate of Achievement in Biotechnology: Biostatistics is a 31.5 unit program designed to train students in methods and techniques used in biotechnology statistical analysis. Courses in this program train students in DNA and protein laboratory techniques and assays, laboratory record keeping, sterile techniques, and mathematical analysis of laboratory outcomes. The program prepares students for entry-level positions in bio-manufacturing, biostatistician assistant, clinical data assistant/associate, validation assistant/technician, production planner/scheduler, and research assistant/associate positions requiring skills in statistics.

The Certificate of Achievement in Biotechnology: Biostatistics prepares students in methods and techniques used in biotechnology statistical analysis. Students are prepared for entry-level positions in bio-manufacturing, biostatistician assistant, clinical data assistant/associate, validation assistant/technician, production planner/scheduler, and research assistant/associate positions requiring skills in statistics.

### Requirements for Certificate of Achievement

1. Complete Major Field courses as indicated below.
2. Complete at least six units at Ohlone College.
3. 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>Biot-105</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>Biot-110A1</td>
<td>Introduction to DNA Techniques</td>
<td>1</td>
</tr>
<tr>
<td>Biot-110A2</td>
<td>PCR I and DNA Sequencing</td>
<td>1</td>
</tr>
<tr>
<td>Biot-110A3</td>
<td>Protein Isolation and Assays</td>
<td>1</td>
</tr>
<tr>
<td>Biot-112</td>
<td>Introduction to Bioinformatics</td>
<td>2</td>
</tr>
<tr>
<td>Biot-113</td>
<td>GMP/GLP</td>
<td>1</td>
</tr>
<tr>
<td>Biot-115A</td>
<td>Mammalian Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>Biot-115B</td>
<td>Bioreactor Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>Biot-119</td>
<td>Clean Room Operations</td>
<td>.5</td>
</tr>
<tr>
<td>Biot-121</td>
<td>Biotechnology Careers</td>
<td>1</td>
</tr>
<tr>
<td>Biot-123</td>
<td>Writing SOPs</td>
<td>.5</td>
</tr>
<tr>
<td>Biot-133</td>
<td>Introduction to SAS Programming</td>
<td>3</td>
</tr>
<tr>
<td>Caot-148</td>
<td>Computer Applications in Biotechnology</td>
<td>.5</td>
</tr>
<tr>
<td>Chem-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>Engr-156</td>
<td>Introduction to Report and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>Math-159</td>
<td>Introduction to Statistics</td>
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</tbody>
</table>

Total Units: 31.5

### Biotechnology: Cell Production/Fermentation

**Certificate of Achievement**

The Certificate of Achievement in Biotechnology: Cell Production/Fermentation is a program designed to train students in the methods and techniques used in biotechnology, with emphasis on cell production used in manufacturing settings. Courses in this program train students in DNA and protein laboratory techniques and assays, laboratory record keeping, sterile techniques, and cell-culturing techniques. The student is prepared for biomannufacturing and pharmomannufacturing entry-level positions requiring skills in cell culturing and fermentation.

### Requirements for Certificate of Achievement

1. Complete Major Field courses as indicated below.
2. Complete at least six units at Ohlone College.
3. 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>Biot-105</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>Biot-110A1</td>
<td>Introduction to DNA Techniques</td>
<td>1</td>
</tr>
<tr>
<td>Biot-110A2</td>
<td>PCR I and DNA Sequencing</td>
<td>1</td>
</tr>
<tr>
<td>Biot-110A3</td>
<td>Protein Isolation and Assays</td>
<td>1</td>
</tr>
<tr>
<td>Biot-113</td>
<td>GMP/GLP</td>
<td>1</td>
</tr>
<tr>
<td>Biot-115A</td>
<td>Mammalian Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>Biot-115B</td>
<td>Bioreactor Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>Biot-117</td>
<td>Immunology</td>
<td>1</td>
</tr>
<tr>
<td>Biot-119</td>
<td>Clean Room Operations</td>
<td>.5</td>
</tr>
<tr>
<td>Biot-121</td>
<td>Biotechnology Careers</td>
<td>1</td>
</tr>
<tr>
<td>Biot-123</td>
<td>Writing SOPs</td>
<td>.5</td>
</tr>
<tr>
<td>Caot-148</td>
<td>Computer Applications in Biotechnology</td>
<td>.5</td>
</tr>
<tr>
<td>Chem-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>Engr-156</td>
<td>Introduction to Report and Technical Writing</td>
<td>3</td>
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</tbody>
</table>

Total Units: 22.5
BIOTECHNOLOGY:
QUALITY CONTROL/RESEARCH ASSOCIATE
Certificate of Achievement

The Certificate of Achievement in Biotechnology: Quality Control/Research Associate is a 23.5 unit program designed to train students in methods and techniques used in biotechnology QA/QC and research settings. Courses in this program train students in DNA and protein laboratory techniques and assays, laboratory record keeping, sterile techniques, advanced PCR procedures, and genomic/cDNA library construction and analytical skills. The program prepares students for entry-level positions in biotechnology/pharmaceutical companies as research assistants, quality control and/or quality assurance assistants/technicians and laboratory assistants/technicians.

The program prepares students for entry-level positions in biotechnology/pharmaceutical companies as research assistants, quality control and/or quality assurance assistants/technicians and laboratory assistants/technicians.

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>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOT-105</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOT-110A</td>
<td>Introduction to DNA Techniques</td>
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</tr>
<tr>
<td>BIOT-110A2</td>
<td>PCR I and DNA Sequencing</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-110B</td>
<td>Protein Isolation and Assays</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-111A</td>
<td>Genomic and cDNA Library Construction and Analysis</td>
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<tr>
<td>BIOT-111B</td>
<td>PCR Primer Design and Optimization and Reverse Transcription</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-113</td>
<td>GMP/GLP</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-115A</td>
<td>Mammalian Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-115B</td>
<td>Bioreactor Cell Culture Techniques</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-119</td>
<td>Clean Room Operations</td>
<td>.5</td>
</tr>
<tr>
<td>BIOT-121</td>
<td>Biotechnology Careers</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-123</td>
<td>Writing SOPs</td>
<td>.5</td>
</tr>
<tr>
<td>CAOT-148</td>
<td>Computer Applications in Biotechnology</td>
<td>.5</td>
</tr>
<tr>
<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

23.5

BROADCASTING

AA Degree
and
Certificate of Achievement

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

REQUIREMENTS FOR AA DEGREE

a) Complete Major Field and Supporting Course with a grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-120</td>
<td>Introduction to Electronic Media</td>
<td>2</td>
</tr>
<tr>
<td>BRDC-123A</td>
<td>Radio Operations I</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-123B</td>
<td>Radio Operations II</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-128</td>
<td>Radio Programming and Marketing</td>
<td>2</td>
</tr>
<tr>
<td>BRDC-130</td>
<td>Broadcast Announcing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-141</td>
<td>Live TV Newscast</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-142</td>
<td>Live TV Studio Production</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-148</td>
<td>Directing Live Television</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-101A</td>
<td>Newswriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR/BRDC-155</td>
<td>Mass Media and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

28

SUPPORTING COURSE

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Did you know???

In 2007-2008 California Community Colleges awarded 83,060 associate degrees!
Source: Community College League of California

2009-2010 OHLONE COLLEGE CATALOG
The Associate of Arts degree with an area of emphasis in Business is designed to provide graduates with the skills and knowledge required to work effectively in a variety of business settings. The curriculum provides a solid foundation in areas of business management, information technology, economics, international business, and legal and ethical issues. Graduates from the AA in Business program will be able to communicate effectively for informal, formal, and quantitative tasks and will be conversant with the values and terminology of the field. They will be able to access information resources, evaluate them for credibility and relevance, and use the sources to present a wide range of alternatives. Having utilized academic processes such as feedback from faculty and self-reflection, graduates will be situated for lifelong learning.

It is imperative that students entering Ohlone’s Associate of Arts degree in Business 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 achieve their academic goals.

**REQUIREMENTS FOR AA DEGREE**

a) Complete the Required Degree and Supporting Course with a grade of C or better.

b) Complete the Required Degree Courses and one Supporting Course.

c) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog. Counselors will also advise students on the General Education plan that best prepares them for pursuing an associate degree and/or transfer.

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

e) Complete at least 12 units at Ohlone College.

f) Complete at least 50% of the Required Degree Courses at Ohlone College.

**REQUIRED DEGREE COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-101A</td>
<td>Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>BA-101B</td>
<td>Managerial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>BA-102A</td>
<td>Principles of Economics-Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BA-102B</td>
<td>Principles of Economics-Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

(continued on next column)
### Major Field

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-101A</td>
<td>Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>BA-101B</td>
<td>Managerial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>BA-102A</td>
<td>Principles of Economics-Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BA-102B</td>
<td>Principles of Economics-Microeconomics</td>
<td>3</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>MATH-159</td>
<td>Introduction to Statistics</td>
<td>5</td>
</tr>
<tr>
<td>MATH-167</td>
<td>Calculus for Business and Social Science</td>
<td>5</td>
</tr>
</tbody>
</table>

### Business Supervision/Management

#### AA Degree and Certificate of Achievement

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

#### Requirements for AA Degree

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

#### Requirements for Certificate of Achievement

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

### Major Field

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSM-101</td>
<td>Fundamentals of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>BSM-102</td>
<td>Interpersonal Relations in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>BSM-103</td>
<td>Management of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>BSM-105</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>BSM-106</td>
<td>Communication for Supervisors</td>
<td>3</td>
</tr>
<tr>
<td>BSM-108</td>
<td>Leadership in Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

### Supporting Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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>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>Major Field Electives</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>


### Chemistry

#### AS Degree: Transfer Focus

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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 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>CHEM-112A</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

### 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>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>
CISCO CERTIFIED NETWORK PROFESSIONAL
(NETWORK+, CCNA, CCNP)

AS Degree
and
Certificate of Achievement

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

REQUIREMENTS FOR AS DEGREE

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

REQUIREMENTS FOR CERTIFICATE OF ACHIEVEMENT

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

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Network Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Routing Protocols and Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CNET-156A</td>
<td>LAN Switching and Wireless</td>
<td>2</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>WAN Design and Support</td>
<td>2</td>
</tr>
<tr>
<td>CNET-157</td>
<td>TCP/IP and Internetworking</td>
<td>3</td>
</tr>
<tr>
<td>CNET-182</td>
<td>Advanced Routing</td>
<td>3</td>
</tr>
<tr>
<td>CNET-183</td>
<td>Implementing Cisco Secure WANs CCNP II</td>
<td>3</td>
</tr>
<tr>
<td>CNET-184</td>
<td>Advanced Switching</td>
<td>3</td>
</tr>
<tr>
<td>CNET-185</td>
<td>Optimizing Converged Networks</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total Required Units: 42

SUPPLEMENTARY COURSES (MINIMUM SIX UNITS REQUIRED)

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

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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-101</td>
<td>Introduction to Computers and Information Technology</td>
</tr>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
</tr>
<tr>
<td>CNET-140A</td>
<td>Linux Installation and Configuration</td>
</tr>
<tr>
<td>CNET-140B</td>
<td>Linux System Administration</td>
</tr>
<tr>
<td>CNET-142A</td>
<td>Linux Networking</td>
</tr>
<tr>
<td>CNET-142B</td>
<td>Linux Security</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX/Linux Shell Scripting</td>
</tr>
<tr>
<td>CNET-149</td>
<td>PERL Programming</td>
</tr>
<tr>
<td>CNET-158</td>
<td>Wireless Networks</td>
</tr>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
</tr>
<tr>
<td>CNET-162A</td>
<td>Microsoft Server Operating Systems</td>
</tr>
<tr>
<td>CNET-162B</td>
<td>Windows Network Infrastructure Administration</td>
</tr>
<tr>
<td>CNET-164A</td>
<td>Microsoft Directory Services</td>
</tr>
<tr>
<td>CNET-164B</td>
<td>Designing Microsoft Windows Directory Services Infrastructure</td>
</tr>
<tr>
<td>CNET-165A</td>
<td>Designing a Secure Microsoft Windows Network</td>
</tr>
<tr>
<td>CNET-165B</td>
<td>Microsoft Internet Security and Acceleration Server (ISA)</td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Network Application Administration I – Email (Exchange 2003)</td>
</tr>
<tr>
<td>CNET-168A</td>
<td>Network Application Administration II – Database (SQL)</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security</td>
</tr>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
</tr>
<tr>
<td>CS-104A</td>
<td>Introduction to .NET Programming</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
</tr>
<tr>
<td>CS-175</td>
<td>Script Technology for Web Development</td>
</tr>
<tr>
<td>CS-176</td>
<td>Introduction to PERL CGI Programming Development</td>
</tr>
</tbody>
</table>

Total Required Units: 42
COMPUTER ENGINEERING

AS Degree: Transfer Focus

The Associate of Science Degree in Computer Engineering offered by Ohlone College is designed to prepare students for pursuing studies at the university level in computer science and engineering. The core courses in Computer Science, Engineering, Mathematics, and Physics required in this associate 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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog.
c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
d) Complete at least 12 units at Ohlone College.
e) Complete at least 50% of the Major Field courses at Ohlone College.
f) Complete two or more Computer Science courses plus ENGI-101 and ENGI-130 at Ohlone College.

MAJOR FIELD

<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>Object-Oriented Programming Using C++ OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-118</td>
<td>Introduction to Assembly Language Programming</td>
<td>4</td>
</tr>
<tr>
<td>ENGI-101</td>
<td>Introduction to Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENGI-130</td>
<td>Electric Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-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>
<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>

53

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 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>

Some colleges and universities require additional courses such as:

<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>ENGI-115</td>
<td>Engineering Graphics and Design</td>
<td>(4)</td>
</tr>
<tr>
<td>ENGI-140</td>
<td>Materials Engineering</td>
<td>(4)</td>
</tr>
<tr>
<td>ENGL-101B</td>
<td>Reading and Composition (Introduction to Literature)</td>
<td>(4)</td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>(3)</td>
</tr>
</tbody>
</table>

COMPUTER SCIENCE

AS Degree: Transfer Focus

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, Mathematics, and Physics required for this associate degree will fulfill the lower division major requirements at many 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 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 associate 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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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>Object-Oriented Programming Using C++ OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-118</td>
<td>Introduction to Assembly Language Programming</td>
<td>4</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-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>
<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>
<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>
</tbody>
</table>

42-46

RECOMMENDED COURSES

To study computer 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>

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

### RECOMMENDED CS ELECTIVES

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

### COMPUTER STUDIES

#### AA Degree and Certificate of Achievement

#### REQUIREMENTS FOR AA DEGREE

a) Complete Major Field courses from one of the two options indicated below with a grade of C or better.

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

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

d) Complete at least 12 units at Ohlone College.

#### REQUIREMENTS FOR CERTIFICATE OF ACHIEVEMENT

a) Complete one of the Major Field options as indicated below.

b) Complete at least six units at Ohlone College.

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

### MAJOR FIELD

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

#### Option #1 – Computer Programming (Software Development)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-102*</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-113/MATH-163*</td>
<td>Discrete Mathematics for Computers</td>
<td>3</td>
</tr>
<tr>
<td>CS-116*</td>
<td>Object-Oriented Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-118*</td>
<td>Introduction to Assembly Language Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-124*</td>
<td>Programming with Data Structures OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td>Major Field Electives</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</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>Introduction to .NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-104B</td>
<td>Advanced .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</td>
<td>4</td>
</tr>
<tr>
<td>CS-176</td>
<td>Introduction to PERL CGI Programming</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-175</td>
<td>Script Technology for Web Development</td>
<td>4</td>
</tr>
<tr>
<td>Major Field Electives</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

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

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### DESKTOP SUPPORT TECHNICIAN

#### AS Degree and Certificate of Achievement

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 grade of C or better.

b) Complete Plan A, B, or C General Education requirements. These requirements 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>CNET-105</td>
<td>PC Hardware and Software</td>
<td>4</td>
</tr>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td>CNET-158</td>
<td>Wireless Networks</td>
<td>4</td>
</tr>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-161A</td>
<td>Desktop Support I – Supporting Users</td>
<td>2</td>
</tr>
<tr>
<td>CNET-161B</td>
<td>Desktop Support II – Supporting Applications</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162A</td>
<td>Microsoft Server Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td>(3)</td>
</tr>
</tbody>
</table>

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

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

(continued on next column)

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Family Child Care

- ECS-320 Introduction to Family Child Care Homes 1
- ECS-324 Parenting 3
- ECS-330 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 Teaching in a Diverse Society 3
- ECS-324 Parenting 3

Creative Activities

- ECS-310 Music and Movement Curriculum for Young Children 3
- ECS-311 Art for the Young Child 3
- ECS-312 The Development of Literacy in Early Childhood Education 3
- ECS-313 Science and Math Curriculum for Young Children 3
- ECS-314 Literature for the Young Child 3

Working with Special Needs

- ECS-304 Observation and Assessment of Children 4
- ECS-316 Children with Special Needs in Programs for Young Children 3

School Age Programs

- ECS-327 School Age Child Development 3
- ECS-328 Curriculum for the School Age Child 3

ENGINEERING

AS Degree: Transfer Focus

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 grade of C or better.

b) Complete Plan A, B, or C General Education requirements. These requirements 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

- CS-116 Object-Oriented Programming Using C++ 4
- ENGI-101 Introduction to Engineering 3
- MATH-101A Calculus with Analytic Geometry 5
- MATH-101B Calculus with Analytic Geometry 5
- MATH-101C Calculus with Analytic Geometry 5
- MATH-104 Differential Equations 5
- PHYS-140 Mechanics 4
- PHYS-141 Electricity and Magnetism 4
- PHYS-142 Optics, Heat, and Modern Physics 4

Select two (2) of the following Engineering courses: 7-8

- ENGI-120 Engineering Mechanics – Statics (3)
- ENGI-130 Electric Circuit Analysis (4)
- ENGI-140 Materials Engineering (4)

RECOMMENDED COURSES

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

- CHEM-101A General Chemistry (5)
- CHEM-101B General Chemistry (5)
- ENGI-115 Engineering Graphics and Design (4)
- MATH-103 Introduction to Linear Algebra (3)
ENGLISH

AA Degree: Transfer Focus

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

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-101A</td>
<td>Reading and Written Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENGL-101B</td>
<td>Reading and Composition (Introduction to Literature)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</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>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-105B</td>
<td>English Literature: From Romanticism to Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-112</td>
<td>Modern Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-113</td>
<td>Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-118</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-120A</td>
<td>Survey of American Literature: Beginning to 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-120B</td>
<td>Survey of American Literature: 1865 to Present</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

(continued on next column)

ELECTIVES

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

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

ENTERTAINMENT DESIGN AND TECHNOLOGY

AA Degree and Certificates of Achievement

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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.

(continued on next page)
MAJOR FIELD

ART-104A  2D Design OR  3
ID-155A  Architectural Drafting for Interior Design  (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  3
TD-170  Survey of Entertainment Design  3

18

Option 1 – Stage Craft

BRDC-142  Live TV Studio Production OR  3
TD-180  Television Series Production  (3)
CS-152  Data Communications  2
TD-153  Scenic Painting  3
TD-161-164  Stagecraft Lab (Theatre, Television, Dance)  1-4
TD-171  3D Entertainment Design for Lighting  3
TD-178  Fundamentals of Rigging  2
TD-195A1-A3  Internship  1-3
Welding Competency*  ***  15-20

*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 Accomplishment 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
TD-195A1-A3  Internship  1-3

18-23

Option 3 – Audio Technician

BRDC-132/MUS-113  Studio Recording  3
BRDC-142  Live TV Studio Production OR  3
TD-180  Television Series Production  (3)
CS-152  Data Communications  2
MUS-112A  Pro Tools 101  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
TD-195A1-A3  Internship  1-3

19-24

(continued on next column)

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
TD-195A1-A3  Internship  1-3

19.5-24.5

Option 5 – Theatrical and TV Lighting Technician

CS-152  Data Communications  2
TD-161-164  Stagecraft Lab (Theatre, Television, Dance)  1-4
TD-171  3D Entertainment Design for Lighting  3
TD-172  Intermediate Lighting for Stage, Television, and Live Events  3
TD-173  Introduction to Moving Lights  2
TD-178  Fundamentals of Rigging  2
TD-180  Television Series Production OR  3
BRDC-142  Live TV Studio Production  (3)
TD-195A1-A3  Internship  1-3

17-22

Option 6 – Moving Light Technician

CS-152  Data Communications  2
TD-161-164  Stagecraft Lab (Theatre, Television, Dance)  1-4
TD-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
TD-195A1-A3  Internship  1-3

13-18

ENVIRONMENTAL SCIENCE

AS Degree: Transfer Focus

The Associate of Science Transfer Degree in Environmental Science offered by Ohlone College is designed to prepare students for studying Environmental Science at most universities. The core courses in the AS degree in Environmental Science 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 and physical sciences, as well as a foundation in the functioning of living systems including population growth, ecology, toxicology, geologic processes, energy resources, pollution, and human attitudes toward nature. Through these courses students will gain a better understanding of how humans are intimately connected with the environment and how human activities impact and are impacted by the environment. Careers in biological consultant, ecosystem and habitat restoration, environmental field or lab technician, environmental health scientist, and environmental manager all require knowledge of environmental issues and the functioning of ecosystems.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s AS degree program in Environmental 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 the future transfer.

(continued on next page)


**REQUESTS FOR AS DEGREE**

a) Complete the Major Field courses with a grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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>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>BIOL-108</td>
<td>Human Ecology</td>
<td>3</td>
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<tr>
<td>BIOL-142</td>
<td>Environmental Biology</td>
<td>4</td>
</tr>
<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>
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<tr>
<td>ENVS-101</td>
<td>Natural Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVS-102</td>
<td>Environmental Law and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ENVS-103</td>
<td>The Environment and Human Health</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG-121</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
<td>2</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
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</tbody>
</table>

**RECOMMENDED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-102B</td>
<td>Principles of Economics-Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-108</td>
<td>Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-142</td>
<td>Environmental Ecology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-106A</td>
<td>Principles of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>ENVS-101</td>
<td>Natural Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVS-102</td>
<td>Environmental Law and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ENVS-103</td>
<td>The Environment and Human Health</td>
<td>3</td>
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<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
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<tr>
<td>GEOG-102</td>
<td>Cultural Geography or</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-105</td>
<td>California Geography OR</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3</td>
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<tr>
<td>GEOG-121</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
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<tr>
<td>GEOG-122</td>
<td>Environmental GIS</td>
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<tr>
<td>GEOG-123</td>
<td>GIS Projects</td>
<td>1</td>
</tr>
<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</td>
<td>5</td>
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<tr>
<td>WEX-195A</td>
<td>Occupational Work Experience Education</td>
<td>1-4</td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL STUDIES**

**AA Degree: Transfer Focus**

The Associate of Arts Transfer Degree in Environmental Studies offered by Ohlone College is designed to prepare students for studying Environmental Studies at most universities. The core courses in the AA degree in Environmental Studies 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 and physical sciences, as well as a foundation in the functioning of living systems including population growth, ecology, toxicology, geologic processes, energy resources, pollution, and human attitudes toward nature. Through these courses students will gain a better understanding of how humans are intimately connected with the environment and how human activities impact and are impacted by the environment. Careers in natural resources, land use planning, business, energy, waste management, pollution control, law, and environmental administration all require knowledge of environmental issues and the functioning of ecosystems.

(continued on next column)
FINE ARTS

AA Degree: General Focus

The Associate of Arts degree with an emphasis in Fine Arts has three concentrations: Art; Music; and Theatre and Dance. Students may choose one of the concentrations to earn a degree in Fine Arts. All concentrations will provide students with the knowledge and skills to succeed in a variety of artistic, musical, or theatrical careers. These courses emphasize the study of cultural and humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.

It is imperative that students entering Ohlone’s Associate of Arts degree in Fine Arts 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 achieve their academic goals.

REQUIREMENTS FOR AA DEGREE

a) Complete the Required Degree Courses with a grade of C or better.
b) Complete a minimum of twenty transferable units in Art, Music, and Theatre and Dance, including a minimum of twelve units in one of the concentrations and an additional eight units from any of the concentrations.
c) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog. Students who do not intend to transfer may complete Plan A; students who intend to transfer may complete either Plan B or C. Counselors will advise students on the general education plan that best prepares them for pursuing an associate degree and/or transfer.
d) Complete at least 60 degree-applicable units with a 2.0 grade point average.
e) Complete at least 12 units at Ohlone College.
f) Complete at least 50% of the required degree courses at Ohlone College.

(continued on next column)

REQUIRED DEGREE COURSES

Art Concentration

Choose a minimum of twelve units from the courses listed below and an additional eight units from any of the three concentrations.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-100</td>
<td>Survey of the Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART-101</td>
<td>Art: An Introduction</td>
<td>3</td>
</tr>
<tr>
<td>ART-103A</td>
<td>Survey of World Art History – Prehistoric Through 1300 C.E.</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>
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<tr>
<td>ART-104A</td>
<td>2D Design</td>
<td>3</td>
</tr>
<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>
<tr>
<td>ART-107A</td>
<td>Life Drawing</td>
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<tr>
<td>ART-107B</td>
<td>Life Drawing</td>
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</tr>
<tr>
<td>ART-108</td>
<td>Perspective 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-116A</td>
<td>Basic Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART-116B</td>
<td>Advanced Sculpture</td>
<td>3</td>
</tr>
<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-133A</td>
<td>Black and White Photography</td>
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<td>ART-133B</td>
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<tr>
<td>ART-133C</td>
<td>Advanced Black and White Photography</td>
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<tr>
<td>ART-139A</td>
<td>Beginning Digital Photography</td>
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<tr>
<td>ART-139B</td>
<td>Intermediate Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART-151</td>
<td>Visualization and Presentation</td>
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<tr>
<td>ART-156</td>
<td>Architectural Modelmaking for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-161A</td>
<td>Digital Graphics I</td>
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<tr>
<td>ART-161B</td>
<td>Digital Graphics II</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Required Units: 12-20

(continued on next page)
Music Concentration

Choose a minimum of twelve units from the courses listed below and an additional eight units from any of the three concentrations.

- MUS-100 Survey of the Arts 3
- MUS-101 Introduction to Music – Western Classical Music 3
- MUS-102 Music Appreciation 3
- MUS-103 Fundamentals of Music 3
- MUS-104 Music of World Cultures 3
- MUS-108 Song Writing 2
- MUS-110A Music Theory and Harmony 3
- MUS-110B Harmony 3
- MUS-110C Advanced Harmony 3
- MUS-110D Advanced Harmony 3
- MUS-111A Musicanship 1
- MUS-111B Musicanship 1
- MUS-111C Advanced Musicanship 1
- MUS-111D Advanced Musicanship 1
- MUS-120A History of Trends in Music Literature 3
- MUS-120B History of Trends in Music Literature 3
- MUS-121 The History of Jazz 3
- MUS-122 A History of Early Rock and Roll: Music and Culture of the 1950’s 3
- MUS-123 History of Rock and Roll: Music and Culture of the 1960’s 3
- MUS-125 History of Rock and Roll: Music and Culture Since 1970 3
- MUS-160A Beginning Class Piano 1
- MUS-160B Class Piano 1
- MUS-160C Class Piano 1
- MUS-160D Class Piano 1

Total Required Units: 12-20

Theatre and Dance Concentration

Choose a minimum of twelve units from the courses listed below and an additional eight units from any of the three concentrations.

- TD-100 Survey of the Arts 3
- TD-101 Introduction to World Theatre 3
- TD-102 Introduction to Theatre Appreciation 3
- TD-107 History of Film 3
- TD-109 Theatre for Today 3
- TD-110 Introduction to Acting 4
- TD-112 Acting Styles – Classical 4
- TD-113 Screenwriting Basics 3
- TD-130 Oral Interpretation of Literature 3
- TD-141A Introduction to Ballet 2
- TD-141B Intermediate Ballet 2
- TD-142A Introduction to Jazz Dance 2
- TD-142B Intermediate Jazz Dance 2
- TD-142C Advanced Jazz Dance 2
- TD-143A Introduction to Tap 2
- TD-143B Intermediate Tap 2
- TD-143C Advanced Tap Dance 2
- TD-144A Introduction to Modern Dance 2
- TD-144B Intermediate Modern Dance 2
- TD-150 Technical Theatre 3
- TD-155A Costume Construction I 3
- TD-155B Costume Construction II 3
- TD-156 Theatrical Costuming 2
- TD-159 Theatre Management 3
- TD-161 Stagecraft Lab 1
- TD-162 Stagecraft Lab 2
- TD-163 Stagecraft Lab 3
- TD-164 Stagecraft Lab 4

Total Required Units: 12-20

GEOLOGY

AS Degree: Transfer Focus

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

MAJOR FIELD

CHEM-101A General Chemistry 5
CHEM-101B General Chemistry 5
GEOL-101 Introduction to Geology 4
MATH-101A Calculus with Analytic Geometry 5
MATH-101B Calculus with Analytic Geometry 5
MATH-101C Calculus with Analytic Geometry 5
PHYS-140 Mechanics 4

Select one of the following course combinations:

GEOL-102 Introduction to Oceanography AND (3)
GEOL-102L Oceanography Laboratory OR (1)
GEOL-103 Paleontology and Dinosaurs AND (3)
GEOL-103L Paleontology Laboratory (1)
Select one of the following Physics courses:

PHYS-141 Electricity and Magnetism OR (4)
PHYS-142 Optics, Heat, and Modern Physics (4)

RECOMMENDED COURSES

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

BIOL-101A Principles of Biology – Molecular and Cellular (5)
BIOL-101B Principles of Biology – Organisms and Systems (5)
MATH-103 Introduction to Linear Algebra (3)
MATH-104 Differential Equations (5)
MATH-159 Introduction to Statistics (5)

GRAPHIC ARTS/COMPUTER GRAPHICS

AA Degree

and

Certificate of Achievement

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

REQUIREMENTS FOR CERTIFICATE OF ACHIEVEMENT

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

MAJOR FIELD

ART-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 Beginning Digital Photography (3)
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/BA-CS-160A Computer Graphics I 4
GA/ART/CAOT-161A Digital Graphics I 2

SUPPORTING COURSE

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

Total Required Units: 35-37

INTERIOR DESIGN

AA Degree

and

Certificate of Achievement

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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.

(continued on next page)
MAJOR FIELD

ART-104B 3D Design 3
ART-104C Color 3
ART-106A Descriptive Drawing 3
ART-108 Perspective Drawing 3
ID/ART-150A Interior Design Concepts 3
ID/ART-150B Interior Design 3
ID/ART-151 Visualization and Presentation 3
ID/ART-153 History of Decorative Arts 3
ID/ART-154 Contemporary Home Design OR 2
ID/ART-159A Applied Design: Residential Lighting AND 1
ID/ART-159B Applied Design: Color for the Home (1)
ID/ART-155A Architectural Drafting for Interior Design 3
ID/ART-155B CAD for Interior Design 3
ID/ART-156 Architectural Modelmaking for Interior Design 3
ID/ART-157 Professional Practice for Interior Design 3
ID/ART-158 Textiles 3

SUPPORTING COURSES

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)

Total Required Units: 41

JOURNALISM

AA Degree

and

Certificate of Achievement

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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.

(continued on next column)
LIBERAL ARTS

AA Degree: General Focus

The Associate of Arts degree in Liberal Arts has three areas of emphasis: Language, Humanities, and Speech and Communication. A liberal arts education allows students to explore any number of career possibilities. Employment prospects are generally strong after graduation; often employers prefer to hire people with the education in the right skills (critical thinking, writing, and analysis) rather than the right subjects. Liberal arts degrees are also an excellent choice for students who want to pursue a higher degree, as universities often prefer candidates with a proven ability to learn and succeed. A liberal arts education offers much more than career-specific training, because it teaches students to understand problems, develop solutions, and lead a balanced and well-rounded life.

It is imperative that students entering Ohlone’s Associate of Arts degree in Liberal Arts 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 achieve their academic goals.

REQUIREMENTS FOR AA DEGREE

a) Complete the Required Degree Courses with a grade of C or better.

b) Complete a minimum of twenty units selected from the areas of emphasis below.

c) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog. Students who do not intend to transfer may complete Plan A; students who intend to transfer may complete either Plan B or C. Counselors will advise students on the general education plan that best prepares them for pursuing an associate degree and/or transfer.

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

e) Complete at least 12 units at Ohlone College.

f) Complete at least 50% of the required degree courses at Ohlone College.

REQUIRED DEGREE COURSES

Language Emphasis

This area of emphasis is designed to help students demonstrate progressive oral competence of the language; decipher progressively more difficult texts; become more competent in writing ability; and demonstrate rudimentary to more advanced level of cultural and historical understanding of the societies associated with the target language. Classes prepare students for entry into a variety of careers in which effective critical thinking, effective writing skills, and multilingual skills are important.

(continued on next column)
Humanities Emphasis

This area of emphasis is designed to help students 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. Classes prepare students for entry into a variety of careers in which effective critical thinking and effective writing skills are important.

Choose a minimum of twenty units from the courses listed below.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-103A</td>
<td>Survey of World Art History – Prehistoric Through 1300 C.E.</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>HIST-104A</td>
<td>Western Civilization with a World Perspective Until 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST-104B</td>
<td>Western Civilization with a World Perspective From 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST-107</td>
<td>History of Film</td>
<td>3</td>
</tr>
<tr>
<td>HIST-112</td>
<td>Chicano History</td>
<td>3</td>
</tr>
<tr>
<td>HIST-141</td>
<td>A History of Early Rock and Roll Music and Culture of the 1950’s</td>
<td>3</td>
</tr>
<tr>
<td>HIST-142</td>
<td>History of Rock and Roll: Music and Culture of the 1960’s</td>
<td>3</td>
</tr>
<tr>
<td>HIST-143</td>
<td>History of Rock and Roll: Music and Culture Since 1970</td>
<td>3</td>
</tr>
<tr>
<td>MUS-120A</td>
<td>History of Trends in Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS-120B</td>
<td>History of Trends in Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-100</td>
<td>Introduction to Philosophy</td>
<td>3</td>
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<tr>
<td>PHIL-101</td>
<td>Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-102</td>
<td>Modern Philosophy</td>
<td>3</td>
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<tr>
<td>PHIL-104</td>
<td>Logic</td>
<td>3</td>
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<tr>
<td>PHIL-106</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-107</td>
<td>Practical Reasoning</td>
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<tr>
<td>PHIL-109A</td>
<td>Understanding the Old Testament</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-109B</td>
<td>Understanding the New Testament</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-110</td>
<td>Introduction to Asian Religions</td>
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</tr>
<tr>
<td>PHIL-112</td>
<td>Introduction to Western Religions</td>
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<tr>
<td>PHIL-114</td>
<td>Introduction to Islam</td>
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**Total Required Units:** 20

(continued on next column)

Speech and Communication Emphasis

This area of emphasis is designed to help students to communicate with diverse audiences in multiple contexts; describe and analyze the symbolic nature of communication and how it creates individual, group, and cultural reality; identify, evaluate, and utilize evidence to support claims used in presentations and arguments; and demonstrate through performance and analysis the importance of both verbal and nonverbal communication. Classes prepare students for entry into careers in which effective communication skills are important, such as education, public relations, and law.

Choose a minimum of twenty units from the courses listed below. Students may only take a maximum of four units total for SPCH-110A1, SPCH-110A2, SPCH-110A3, SPCH-112A1, SPCH-112A2, SPCH-112A3, SPCH-114A1, SPCH-114A2, and SPCH-114A3. Students may also only take a maximum of three units of SPCH-190A, SPCH-190B, and SPCH-190C.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-100</td>
<td>Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-101A</td>
<td>Newswriting</td>
<td>3</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</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-104</td>
<td>Critical Thinking/Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-105</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-106</td>
<td>Critical Thinking/Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-107</td>
<td>Leadership Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-108</td>
<td>Gender Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-110A1</td>
<td>Forensics Workshop</td>
<td>1</td>
</tr>
<tr>
<td>SPCH-110A2</td>
<td>Forensics Workshop</td>
<td>2</td>
</tr>
<tr>
<td>SPCH-110A3</td>
<td>Forensics Workshop</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-112A1</td>
<td>Argumentation and Debate Workshop</td>
<td>1</td>
</tr>
<tr>
<td>SPCH-112A2</td>
<td>Argumentation and Debate Workshop</td>
<td>2</td>
</tr>
<tr>
<td>SPCH-112A3</td>
<td>Argumentation and Debate Workshop</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-114A1</td>
<td>Oral Interpretation Workshop</td>
<td>1</td>
</tr>
<tr>
<td>SPCH-114A2</td>
<td>Oral Interpretation Workshop</td>
<td>2</td>
</tr>
<tr>
<td>SPCH-114A3</td>
<td>Oral Interpretation Workshop</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-122</td>
<td>Family Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-130</td>
<td>Oral Interpretation of Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-132</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-190A</td>
<td>Speech Communication Lab Consultant</td>
<td>1</td>
</tr>
<tr>
<td>SPCH-190B</td>
<td>Speech Communication Lab Consultant</td>
<td>2</td>
</tr>
<tr>
<td>SPCH-190C</td>
<td>Speech Communication Lab Consultant</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Required Units:** 20

Photo courtesy of Julie Polk.
M A T H E M A T I C S

AS Degree: Transfer Focus

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

MAJOR FIELD

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

Select one of the following courses: 3-4

<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>Introduction to .NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>MATH-111</td>
<td>Introduction to Matlab</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following courses: 6-10

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>ENGI-120</td>
<td>Engineering Mechanics – Statics</td>
<td>3</td>
</tr>
<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</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>

36-41

RECOMMENDED COURSES

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGI-130</td>
<td>Electric Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ENGI-140</td>
<td>Materials Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

MICROSOFT SYSTEMS ENGINEER (NETWORK+, MCP, MCSE)

AS Degree and Certificate of Achievement

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

REQUIREMENTS FOR CERTIFICATE OF ACHIEVEMENT

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

MAJOR FIELD

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

27

(continued on next page)
**SUPPORTING COURSES (MINIMUM SIX UNITS REQUIRED)**

Choose 1-4 units from the following:

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

Choose 2-5 units from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
<td>4</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>CNET-147</td>
<td>UNIX/Linux Shell Scripting</td>
<td>4</td>
</tr>
<tr>
<td>CNET-149</td>
<td>PERL Programming</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Network Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Routing Protocols and Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CNET-156A</td>
<td>LAN Switching and Wireless</td>
<td>2</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>WAN Design and Support</td>
<td>2</td>
</tr>
<tr>
<td>CNET-158</td>
<td>Wireless Networks</td>
<td>4</td>
</tr>
<tr>
<td>CNET-165B</td>
<td>Microsoft Internet Security and Acceleration Server (ISA)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Network Application Administration I – Email (Exchange 2003)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-168A</td>
<td>Network Application Administration II – Database (SQL)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security</td>
<td>4</td>
</tr>
<tr>
<td>CNET-182</td>
<td>Advanced Routing</td>
<td>3</td>
</tr>
<tr>
<td>CNET-183</td>
<td>Implementing Cisco Secure WANs CCNP II</td>
<td>3</td>
</tr>
<tr>
<td>CNET-184</td>
<td>Advanced Switching</td>
<td>3</td>
</tr>
<tr>
<td>CNET-185</td>
<td>Optimizing Converged Networks</td>
<td>3</td>
</tr>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-104A</td>
<td>Introduction to .NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-170</td>
<td>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>CS-176</td>
<td>Introduction to PERL CGI Programming Development</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Required Units:** 33

---

**M U L T I M E D I A**

**AA Degree**

**Certificate of Achievement**

This program is designed to provide students with technical skills and a strong foundation in design. Students have the opportunity to explore the many different areas of multimedia while following professional practices and employing industry-standard software.

**REQUIREMENTS FOR AA DEGREE**

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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>Beginning Digital Photography OR</td>
<td>3</td>
</tr>
<tr>
<td>GA-109A</td>
<td>Beginning Graphic Design I (Letter Forms and Typography) OR</td>
<td>(3)</td>
</tr>
<tr>
<td>GA-160A</td>
<td>Computer Graphics I</td>
<td>(4)</td>
</tr>
<tr>
<td>MM-102A</td>
<td>Multimedia I</td>
<td>4</td>
</tr>
<tr>
<td>MM-105</td>
<td>Web Site Design</td>
<td>4</td>
</tr>
<tr>
<td>MM-110</td>
<td>Digital Video for the Web and DVD</td>
<td>4</td>
</tr>
<tr>
<td>MM-160</td>
<td>Multimedia Portfolio Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Required Units:** 15

**SUPPORTING COURSES**

Select 12-14 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-106</td>
<td>Advanced Web Site Design</td>
<td>3</td>
</tr>
<tr>
<td>MM-107</td>
<td>Introduction to Dreamweaver</td>
<td>.5</td>
</tr>
<tr>
<td>MM-111</td>
<td>Introduction to After Effects</td>
<td>.5</td>
</tr>
<tr>
<td>MM-114</td>
<td>Textures for 3D</td>
<td>3</td>
</tr>
<tr>
<td>MM-115</td>
<td>3D Animation</td>
<td>3</td>
</tr>
<tr>
<td>MM-116</td>
<td>3D Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MM-117</td>
<td>Advanced 3D Modeling and Animation</td>
<td>3</td>
</tr>
<tr>
<td>MM-118</td>
<td>Introduction to Video Game Design</td>
<td>2</td>
</tr>
<tr>
<td>MM-119</td>
<td>Video Game Development</td>
<td>3-6</td>
</tr>
<tr>
<td>MM-162</td>
<td>XHTML</td>
<td>4</td>
</tr>
<tr>
<td>MM-195A1</td>
<td>Occupational Work Experience Education</td>
<td>1</td>
</tr>
<tr>
<td>MUS-112A</td>
<td>ProTools 101</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Required Units:** 12-14
MUSIC
AA Degree: Transfer Focus

The Associate of Arts 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 AA DEGREE

a) Complete the Major Field and Emphasis Courses with a grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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:
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-355, 356, 358, 367, 368, 394

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

Composition Track

Complete 3 units from the following:
MUS-112A ProTools 101 3
MUS-112B ProTools 110 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

NATURAL SCIENCE
AA Degree: General Focus

The Associate of Arts degree in Natural Science has three areas of emphasis: Biological Science; Physical Science; and Mathematics and Technology. Students may choose one of these emphases to earn a degree in Natural Science. These emphases will provide students with the knowledge and skills to succeed in a variety of science or technological careers. Graduates with an AA in Natural Science will develop a strong foundation in the life sciences, physical sciences, and mathematics. Furthermore, the theoretical knowledge and laboratory skills acquired by students in these programs will also enhance their success with obtaining entry-level jobs that require two years of college-level science and math.

It is imperative that students entering Ohlone’s Associate of Arts degree in Natural 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 pursue their academic goals.

REQUIREMENTS FOR AA DEGREE

a) Complete the Required Degree Courses with a grade of C or better.
b) Complete a minimum of twenty transferable units selected from one of the areas of emphasis, including a minimum of twelve units in the same department and an additional eight units from any of the courses within the emphasis.
c) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog. Students who do not intend to transfer may complete Plan A; students who intend to transfer may complete either Plan B or C. Counselors will advise students on the general education plan that best prepares them for pursuing an associate degree and/or transfer.
d) Complete at least 60 degree-applicable units with a 2.0 grade point average.
e) Complete at least 12 units at Ohlone College.
f) Complete at least 50% of the required degree courses at Ohlone College.

(continued on next column)

Did you know???

Ohlone College’s name honors the Ohlone Indians of the Costanoan tribe, also known as “the people of the West,” who lived in the Fremont and Newark areas.
REQUIRED DEGREE COURSES

Biological Science Emphasis

This emphasis will enable students to develop a strong foundation in the life sciences. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this emphasis will also enhance their success with obtaining entry-level jobs that require two years of college-level life science and laboratory skills.

Choose a minimum of twelve units from the Biology courses listed below and an additional eight units from any of the remaining courses within this emphasis.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-101</td>
<td>Physical Anthropology</td>
<td>4</td>
</tr>
<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>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-104</td>
<td>Basic Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-105</td>
<td>Heredity, Evolution, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-106</td>
<td>Microbiology</td>
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<tr>
<td>BIOL-107</td>
<td>Microbiology and Infectious Diseases</td>
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<tr>
<td>BIOL-108</td>
<td>Human Ecology</td>
<td>3</td>
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<tr>
<td>BIOL-109</td>
<td>Biology of Sexual Reproduction</td>
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<tr>
<td>BIOL-114</td>
<td>Introduction to Plant Biology</td>
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<tr>
<td>BIOL-114B</td>
<td>Applications in Plant and Food Biotechnology</td>
<td>2</td>
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<td>BIOL-130</td>
<td>Introduction to Biology</td>
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<td>BIOL-140</td>
<td>Sierra Nevada Natural History</td>
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<td>BIOL-141</td>
<td>Marine Biology</td>
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<td>BIOL-142</td>
<td>Environmental Biology</td>
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<tr>
<td>CHEM-102</td>
<td>Preparation for General Chemistry</td>
<td>4</td>
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<tr>
<td>CHEM-106A</td>
<td>Principles of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
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</table>

Total Required Units: 20

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ASTR-101A</td>
<td>General Astronomy of the Solar System</td>
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<td>ASTR-101B</td>
<td>General Astronomy Beyond the Solar System</td>
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<td>ASTR-102</td>
<td>General Astronomy Lab</td>
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<tr>
<td>CHEM-101A</td>
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<td>Preparation for General Chemistry</td>
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<tr>
<td>CHEM-106A</td>
<td>Principles of Chemistry</td>
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</tr>
<tr>
<td>CHEM-106B</td>
<td>Principles of Chemistry</td>
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<tr>
<td>CHEM-108</td>
<td>Survey of Chemistry</td>
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<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
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<td>CHEM-112A</td>
<td>Organic Chemistry</td>
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<td>CHEM-112B</td>
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<td>GEOG-101</td>
<td>Physical Geography</td>
<td>4</td>
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<td>GEOL-101</td>
<td>Introduction to Geology</td>
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<tr>
<td>GEOL-102</td>
<td>Introduction to Oceanography</td>
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<td>GEOL-102L</td>
<td>Oceanography Laboratory</td>
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<td>GEOL-103</td>
<td>Paleontology and Dinosaurs</td>
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<td>GEOL-103L</td>
<td>Paleontology Laboratory</td>
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<td>PHYS-108</td>
<td>Survey of Physics</td>
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<td>PHYS-120</td>
<td>Introduction to Physics I</td>
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<tr>
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<td>PHYS-121</td>
<td>Introduction to Physics II</td>
<td>4</td>
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<tr>
<td>PHYS-121A</td>
<td>Introduction to Physics II – Calculus Supplement</td>
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<td>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
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<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism</td>
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<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Required Units: 20

Physical Science Emphasis

This emphasis will enable students to develop a strong foundation in the physical sciences. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this emphasis will also enhance their success with obtaining entry-level jobs that require two years of college-level physical science and laboratory skills.

Choose a minimum of twelve units from either the Chemistry, Geology, or Physics courses listed below and an additional eight units from any of the remaining courses within this emphasis.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR-101A</td>
<td>General Astronomy of the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>ASTR-101B</td>
<td>General Astronomy Beyond the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>ASTR-102</td>
<td>General Astronomy Lab</td>
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<tr>
<td>CHEM-101A</td>
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<td>CHEM-101B</td>
<td>General Chemistry</td>
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<td>Preparation for General Chemistry</td>
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<tr>
<td>CHEM-106A</td>
<td>Principles of Chemistry</td>
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<tr>
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<td>CHEM-108</td>
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<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
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<tr>
<td>CHEM-112A</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
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<tr>
<td>GEOL-101</td>
<td>Introduction to Geology</td>
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<tr>
<td>GEOL-102</td>
<td>Introduction to Oceanography</td>
<td>3</td>
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<tr>
<td>GEOL-102L</td>
<td>Oceanography Laboratory</td>
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<tr>
<td>GEOL-103</td>
<td>Paleontology and Dinosaurs</td>
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<tr>
<td>GEOL-103L</td>
<td>Paleontology Laboratory</td>
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<td>PHYS-108</td>
<td>Survey of Physics</td>
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<td>Electricity and Magnetism</td>
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<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
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</tbody>
</table>

Total Required Units: 20

Mathematics and Technology Emphasis

This emphasis will enable students to develop a strong foundation in mathematics and technology. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this emphasis will also enhance their success with obtaining entry-level jobs that require two years of college-level mathematics and technology courses. Classes prepare students for technical careers such as in information technology, systems administration, and networking.

(continued on next page)
Choose a minimum of twelve units in the same department, a minimum of three units in Mathematics, and a minimum of three units in technology (CS or CNET).

CNET-105 PC Hardware and Software 4
CNET-114 How Technology Works 4
CNET-115 Introduction to Robotics and Automated Systems 4
CNET-150 Network Operating Systems 4
CNET-170 Network Security 4
CNET-171 Information Security 3
CS-101L Computer Applications 2
CS-101 Introduction to Computers and Information Technology 3
CS-102 Introduction to Computer Programming Using C++ 4
CS-104A Introduction to .NET Programming 4
CS-104B Advanced .NET Programming 4
CS-104C ASP.NET Programming 4
CS-104D Web Services for .NET 4
CS-113 Discrete Mathematics for Computers 3
CS-116 Object Oriented Programming Using C++ 4
CS-118 Introduction to Assembly Language Programming 4
CS-121 Applied Programming in Visual C++ 4
CS-122 C# .NET Programming 4
CS-124 Programming with Data Structures 4
CS-125 Introduction to Programming Using Java 4
CS-126 Internet Security Programming 4
CS-130 Systems Analysis 3
CS-131 Computing Concepts in Biotechnology 4
CS-132 DNA Computing 1
CS-133 Introduction to SAS Programming 3
CS-136 Advanced Database Programming 3
CS-137 Introduction to SQL 4
CS-139 Data Mining 3
CS-141B SAS Graphing and ODS 2
CS-143 Advanced SAS Programming 3
CS-146 Introduction to UNIX/Linux 3
CS-147 UNIX/Linux Shell Scripting 4
CS-149 PERL Programming 4
CS-152 Data Communications 2
CS-157 TCP/IP and Internetworking 3
CS-160A Computer Graphics I 4
CS-160B Computer Graphics II 4
CS-162 XHTML 4
CS-169A Digital Photography 2
CS-169B Intermediate Digital Photography 2
CS-170 Java Programming 4
CS-175 Script Technology for Web Development 4
CS-176 Introduction to PERL CGI Programming Development 4
CS-178 XML 3
MATH-101A Calculus with Analytic Geometry 5
MATH-101B Calculus with Analytic Geometry 5
MATH-101C Calculus with Analytic Geometry 5
MATH-103 Introduction to Linear Algebra 3
MATH-104 Differential Equations 5
MATH-111 Introduction to Matlab 3
MATH-156 Math for Liberal Arts 3
MATH-159 Introduction to Statistics 5
MATH-163 Discrete Mathematics for Computers 3
MATH-166 Finite Mathematics 4
MATH-167 Calculus for Business and Social Science 5
MATH-181 Trigonometry 3
MATH-188 Pre-Calculus 5

Total Required Units: 20

NETWORK ADMINISTRATOR
(NETWORK+, MCP OR UNIX, CCNA)

AS Degree
and
Certificate of Achievement

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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-150 Network Operating Systems 4
CNET-152 Data Communications 2
CNET-155A Network Fundamentals 4
CNET-155B Routing Protocols and Concepts 4
CNET-156A LAN Switching and Wireless 2
CNET-156B WAN Design and Support 2
CNET-157 TCP/IP and Internetworking 3
CNET-160A Microsoft Client Operating Systems AND 2
CNET-162A Microsoft Server Operating Systems AND 2
CNET-162B Windows Network Infrastructure Administration AND 2
CNET-164A Microsoft Directory Services OR 2
CNET-140A Linux Installation and Configuration AND (2)
CNET-140B Linux System Administration AND (2)
CNET-146 Introduction to UNIX/Linux AND (3)
CNET-147 UNIX/Linux Shell Scripting (4)
ENGL-156 Introduction to Report and Technical Writing OR 3
SPCH-115 Career Communication (3)

(continued on next page)
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 3
CNET-105 PC Hardware and Software 4
CNET-140A Linux Installation and Configuration 2
CNET-140B Linux System Administration 2
CNET-142A Linux Networking 2
CNET-142B Linux Security 2
CNET-149 PERL Programming 4
CNET-158 Wireless Networks 4
CNET-164B Designing Microsoft Windows Directory Services Infrastructure 2
CNET-165A Designing a Secure Microsoft Windows Network 2
CNET-165B Microsoft Internet Security and Acceleration Server (ISA) 2
CNET-167A Network Application Administration I – Email (Exchange 2003) 2
CNET-168A Network Application Administration II – Database (SQL) 2
CNET-170 Network Security 4
CNET-182 Advanced Routing 3
CNET-183 Implementing Cisco Secure WANs CCNP II 3
CNET-184 Advanced Switching 3
CNET-185 Optimizing Converged Networks 3
CS-102 Introduction to Computer Programming Using C++ 4
CS-104A Introduction to .NET Programming 4
CS-170 Java Programming 4
CS-175 Script Technology for Web Development 4
CS-176 Introduction to PERL CGI Programming Development 4

Total Required Units: 38-41

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 grade of C or better.

b) Complete Plan A, B, or C General Education requirements. These requirements 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

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-107C Clinical Practicum III 3
PTA-108 Advanced Modalities 2
PTA-109 Physical Therapy Through the Life Span 2
PTA-110 Neurological Disorders 2
PTA-111 Advanced Procedures 2
PTA-301 Clinical Practicum I 4
PTA-302 Clinical Practicum II 4
PTA-303 Clinical Internship 4.5

SUPPORTING COURSES

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

Photo courtesy of Julie Polk.
**PHYSICS**

*Associate of Science Degree: Transfer Focus*

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 system. 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 grade of C or better.

b) Complete Plan A, B, or C General Education requirements. These requirements 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**

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

**RECOMMENDED COURSES**

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</td>
<td></td>
</tr>
</tbody>
</table>

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**REAL ESTATE SALES BROKER**

*AA Degree and Certificate of Achievement*

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 grade of C or better.

b) Complete Plan A, B, or C General Education requirements. These requirements 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>
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</thead>
<tbody>
<tr>
<td>BA-106</td>
<td>Applied Accounting</td>
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</tr>
<tr>
<td>RE-121</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RE-122</td>
<td>Real Estate Practice</td>
<td>3</td>
</tr>
<tr>
<td>RE-124</td>
<td>Legal Aspects of Real Estate</td>
<td>3</td>
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<td>RE-126</td>
<td>Real Estate Finance</td>
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<tr>
<td>RE-128</td>
<td>Real Estate Appraisal</td>
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</tr>
<tr>
<td>RE-149</td>
<td>Real Estate Property Management</td>
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</table>

**SUPPORTING COURSES**

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

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“It is still hard for me to believe how far I have come, but I am grateful. My journey has taught me how to surround myself with people who believe in me and to believe in myself, to take life one day at a time, and to work through obstacles, not get lost in them.”

*Lora Williams*

*Ohlone College Graduate, AA in Social Science, May 2008*

*Currently attending UC Berkeley, American Studies Major*
## REGISTERED NURSING

**AS Degree**

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

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

The program is based on a selective admission process and involves a special application due in April for admission the following Fall Semester (August) and October for Spring Semester (January). For more information on advanced placement, LVN RN, and the 30 unit option, see the Health Sciences Web pages. The program is accredited by the National League for Nursing Accrediting Commission (61 Broadway, New York, New York, 10006; (213) 363-5555; www.nln.org) and the California Board of Registered Nursing (400 R Street, Suite 4030, Sacramento, California 95814; (916) 322-3350; www.rn.ca.gov).

### REQUIREMENTS FOR AS DEGREE

- a) Complete Major Field and Supporting Courses with a 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.
- e) Complete each Major Field and Supporting Course with a grade of C or better.

### MAJOR FIELD

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
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<td>NUR-301</td>
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<tr>
<td>NUR-302</td>
<td>Nursing Care of the Medical-Surgical Patient I</td>
<td>5.5</td>
</tr>
<tr>
<td>NUR-303</td>
<td>Nursing Care of Women and Children</td>
<td>8</td>
</tr>
<tr>
<td>NUR-304</td>
<td>Nursing Care of the Medical-Surgical Patient II</td>
<td>5</td>
</tr>
<tr>
<td>NUR-305</td>
<td>Nursing Care of the Medical-Surgical Patient III</td>
<td>5</td>
</tr>
<tr>
<td>NUR-306</td>
<td>Nursing Care of the Mental Health Client and Advanced Gerontologic Care</td>
<td>5</td>
</tr>
<tr>
<td>NUR-307</td>
<td>Nursing Leadership and Preceptorship</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>38.5</td>
</tr>
</tbody>
</table>

### SUPPORTING COURSES

<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-106</td>
<td>Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>CFS-109</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PSY-108</td>
<td>A Survey of Human Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>19</td>
</tr>
</tbody>
</table>

## RESPIRATORY THERAPIST

**AS Degree**

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

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

### REQUIREMENTS FOR AS DEGREE

- a) Complete Major Field and Supporting 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.

### MAJOR FIELD

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

(continued on next page)
SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH-151</td>
<td>Applied Clinical Pharmacology</td>
<td>2</td>
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<tr>
<td>BIOL-104</td>
<td>Basic Human Anatomy and Physiology</td>
<td>4</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 (3)</td>
<td></td>
</tr>
<tr>
<td>PHYS-108</td>
<td>Survey of Physics</td>
<td>3</td>
</tr>
<tr>
<td>PSY-105</td>
<td>Child Development OR</td>
<td>3</td>
</tr>
<tr>
<td>PSY-106</td>
<td>Adolescent Development OR (3)</td>
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<tr>
<td>PSY-108</td>
<td>A Survey of Human Development OR (3)</td>
<td></td>
</tr>
<tr>
<td>PSY-114</td>
<td>Introduction to Paraprofessional Counseling (3)</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL: 15-17

SOCIAL SCIENCE

AA Degree: General Focus

The Associate of Arts degree with an area of emphasis in Social Science allows students to explore a number of career possibilities. The general emphasis prepares students to be enlightened citizens equipped with the broad cultural background in anthropology, economics, geography, history, psychology, sociology, etc. Employment prospects are generally strong after graduation; often employers prefer to hire people with the education in the right skills (critical thinking, writing, and analysis) rather than the right subjects. Social science degrees are also an excellent choice for students who want to pursue a higher degree, as universities often prefer candidates with a proven ability to learn and succeed. A social science education offers much more than career-specific training, because it teaches students to understand problems, develop solutions, and lead a balanced and well-rounded life.

It is imperative that students entering Ohlone’s Associate of Arts degree in Social 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 achieve their academic goals.

REQUIREMENTS FOR AA DEGREE

a) Complete the Required Degree Courses with a grade of C or better.

b) Complete a minimum of twenty units selected from the Required Degree Courses listed below.

c) Complete a minimum of two courses from each of three departments.

d) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog. Students who do not intend to transfer may complete Plan A; students who intend to transfer may complete either Plan B or C. Counselors will advise students on the general education plan that best prepares them for pursuing an associate degree and/or transfer.

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

f) Complete at least 12 units at Ohlone College.

g) Complete at least 50% of the required degree courses at Ohlone College.

REQUIRED DEGREE COURSES

Choose a minimum of twenty units from the courses listed below, including six units from each of three departments.

(continued on next column)
SPEECH AND COMMUNICATION STUDIES

AA Degree: Transfer Focus

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

MAJOR FIELD

SPCH-101 Introduction to Public Speaking 3
SPCH-102 Critical Thinking/Group Decision Making OR 3
SPCH-104 Critical Thinking/Persuasion OR 3
SPCH-106 Critical Thinking/Argumentation and Debate (3)
SPCH-103 Interpersonal Communication 3
SPCH-105 Intercultural Communication 3
SPCH-110A-A3* Forensics Workshop AND/OR 1-3
SPCH-112A-A3* Argumentation and Debate Workshop AND/OR 1-3
SPCH-114A-A3* Oral Interpretation Workshop AND/OR 1-3
SPCH-190A-C* Speech Communication Lab Consultant 1-3
SPCH-132 Voice and Diction 3

Total Required Units: 17-27

*SPCH-110A-A3, and/or SPCH-112A-A3, and/or SPCH-114A-A3, and/or SPCH-190A-C should be taken for a minimum of two units and a maximum of 12 units.

SUPPORTING COURSES

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

BRDC-141 Live TV Newscast 3
JOUR-155 Mass Media and Society 3
PSY-101 General Psychology 3
SOC-101 Introduction to Sociology 3
SPCH-102** Critical Thinking/Group Decision Making 3
SPCH-104** Critical Thinking/Persuasion 3
SPCH-106** Critical Thinking/Argumentation and Debate 3
SPCH-115 Career Communication 3
SPCH-122 Family Communication 3
SPCH-130 Oral Interpretation of Literature 3
TD-110 Introduction to Acting 4

Total Required Units: 20-30

**If not taken as part of the Major Field courses.

Recommended for transfer: MATH-159, Introduction to Statistics

TECHNICAL SUPPORT SPECIALIST
(A+, NETWORK+, MCP)

AS Degree

and

Certificate of Achievement

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 grade of C or better.
b) Complete Plan A, B, or C General Education requirements. These requirements 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 Introduction to UNIX/Linux 3
CNET-150 Network Operating Systems 4
CNET-152 Data Communications 2
CNET-157 TCP/IP and Internetworking 3
CNET-160A Microsoft Client Operating Systems 2
CNET-162A Microsoft Server Operating Systems 2
ENGL-156 Introduction to Report and Technical Writing OR 3
SPCH-115 Career Communication (3)

(continued on next page)
**SUPPORTING COURSES (MINIMUM SIX UNITS REQUIRED)**

Choose 1-4 units from the following:  
1-4
- CNET-1951-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 UNIX/Linux Shell Scripting  
- CNET-149 PERL Programming  
- CNET-155A Network Fundamentals  
- CNET-155B Routing Protocols and Concepts  
- CNET-156A LAN Switching and Wireless  
- CNET-156B WAN Design and Support  
- CNET-162B Windows Network Infrastructure Administration  
- CNET-164A Microsoft Directory Services  
- CNET-164B Designing Microsoft Windows Directory Services Infrastructure  
- CNET-165A Designing a Secure Microsoft Windows Network  
- CNET-165B Microsoft Internet Security and Acceleration Server (ISA)  
- CNET-167A Network Application Administration I – Email (Exchange 2003)  
- CNET-168A Network Application Administration II – Database (SQL)  
- CNET-170 Network Security  
- CNET-182 Advanced Routing  
- CNET-183 Implementing Cisco Secure WANs CCNP II  
- CNET-184 Advanced Switching  
- CNET-185 Optimizing Converged Networks  
- CS-102 Introduction to Computer Programming Using C++  
- CS-104A Introduction to .NET Programming  
- CS-170 Java Programming  
- CS-175 Script Technology for Web Development  
- CS-176 Introduction to PERL CGI Programming Development  

Total Required Units: 32

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**UNIX/LINUX SYSTEMS ADMINISTRATOR**

**AS Degree**

and

**Certificate of Achievement**

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 grade of C or better.

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

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

d) Complete at least 12 units at Ohlone College.

**REQUIREMENTS FOR CERTIFICATE OF ACHIEVEMENT**

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

b) Complete at least six units at Ohlone College.

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

**MAJOR FIELD**

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

26

**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 (2)
- CNET-170 Network Security (4)
- CNET-1951-A4 Internship (1-4)

**AND**

**Programming Elective** 4

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

31-34

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Photo courtesy of Julie Polk.
# CERTIFICATES OF ACCOMPLISHMENT

Certificates of Accomplishment are awarded upon the completion of an organized course of study for a specific course, usually career or job related. Certificates of Accomplishment consist of a maximum of 17.5 units and allow students to finish the program in a shorter period of time. In order to earn a Certificate of Accomplishment students must:

- complete satisfactorily 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.

## ANTHROPLOGY: 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-101</td>
<td>Physical Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-104</td>
<td>Survey of North American Indian Cultures</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-102</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS-110</td>
<td>Introduction to Ethnic Studies OR</td>
<td>3</td>
</tr>
<tr>
<td>IS-120</td>
<td>Women of the Western World</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total: 16 units

## 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-101</td>
<td>Physical Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-105</td>
<td>Heredity, Evolution, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-150</td>
<td>Introduction to Biology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL-103</td>
<td>Paleontology and Dinosaurs</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 17 units

## 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.

<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.</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-117A</td>
<td>Museum and Gallery Techniques (Exhibition Production)</td>
<td>2</td>
</tr>
<tr>
<td>ART-153</td>
<td>History of Decorative Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 13 units

## 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR-101A</td>
<td>General Astronomy of the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>ASTR-101B</td>
<td>General Astronomy Beyond the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>MATH-181</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 9 units
**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.

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

12.5–14

**BALLET DANCE TEACHER/CHOREOGRAPHER**

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

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

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

16

**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, systems, 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.

- BIOL-101B Principles of Biology – Organisms and Systems 5
- CHEM-112B Organic Chemistry 5

Choose one of the following courses:

- MATH-101A Calculus with Analytic Geometry OR 5
- PHYS-121 Introduction to Physics II OR (4)
- PHYS-142 Optics, Heat, and Modern Physics (4)

Choose two units in Biology from the following:

- BIOL-131D Review of Biological Concepts 1
- BIOL-201 Special Projects 1
- BIOL-202 Special Projects 2
- BIOT-120 Introduction to Scanning Electron Microscopy (SEM) 1

16-17

**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.

- BIOL-103A Human Anatomy and Physiology 4
- BIOL-103B Human Anatomy and Physiology 4
- BIOL-130 Introduction to Biology 4

Choose one course from the following:

- BIOL-106 Microbiology OR 5
- BIOL-107 Microbiology and Infectious Diseases (3)

15-17

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**Did you know???

Ohlone was the first smoke-free college in the Bay Area and has set a trend for other colleges.**

---
**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**
- **BIOT-105 Introduction to Cell and Molecular Biology**

Complete at least three of the following courses:

- **BIOL-105 Heredity, Evolution, and Society**
- **BIOL-107 Microbiology and Infectious Diseases**
- **BIOL-108 Human Ecology**
- **BIOL-109 Biology of Sexual Reproduction**

**BIOTECHNOLOGY: BIOMANUFACTURING**

This certificate program provides students with an excellent preparation in various protocols and hands-on laboratory skills used in many biotechnology companies. A goal of the program is to prepare students for entry-level positions in biotech and pharmaceutical companies.

This certificate prepares students as laboratory research assistants and biomanufacturing technicians. It provides excellent preparation in laboratory skills used in entry-level positions at many biotechnology and pharmaceutical companies.

Choose one course from the following:

- **BIOL-130 Introduction to Biology**
- **OR**
- **BIOT-105 Introduction to Cell and Molecular Biology**

Complete at least three of the following courses:

- **BIOL-105 Heredity, Evolution, and Society**
- **BIOL-107 Microbiology and Infectious Diseases**
- **BIOL-108 Human Ecology**
- **BIOL-109 Biology of Sexual Reproduction**

**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**
- **BRDC-137 Video Field Production**
- **BRDC-138 AVID Editing**
- **BRDC-139 Advanced AVID Editing**
- **BRDC-141 Live TV Newscast**

**BROADCASTING: ENTERTAINMENT TELEVISION**

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

- **BRDC-135 Final Cut Pro – Advanced Techniques**
- **BRDC-136 Digital Video and Lighting**
- **BRDC-137 Video Field Production**
- **BRDC-138 AVID Editing OR**
- **BRDC-134 Final Cut Pro Editing**
- **BRDC-180 Make a Movie**

**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**
- **BRDC-137 Video Field Production**
- **BRDC-138 AVID Editing OR**
- **BRDC-134 Final Cut Pro Editing**
- **BRDC-139 Advanced AVID Editing**
- **BRDC-180 Make a Movie**

**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**
- **BRDC-141 Live TV Newscast**
- **BRDC-142 Live TV Studio Production**
- **BRDC-148 Directing Live Television**
- **JOUR-155 Mass Media and Society**
BROADCASTING: MUSIC VIDEO PRODUCTION

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-135</td>
<td>Final Cut Pro – Advanced Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-138</td>
<td>AVID Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-139</td>
<td>Advanced AVID Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-150</td>
<td>Music Video Production</td>
<td>3</td>
</tr>
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<td>15</td>
</tr>
</tbody>
</table>

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</th>
<th>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-150</td>
<td>Broadcast Announcing</td>
<td>3</td>
</tr>
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<td>10</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</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BRDC-123A</td>
<td>Radio Operations I</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-123B</td>
<td>Radio Operations II</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-127A</td>
<td>Radio Broadcast Lab</td>
<td>1</td>
</tr>
<tr>
<td>BRDC-129</td>
<td>Digital Radio Studio Systems</td>
<td>2</td>
</tr>
<tr>
<td></td>
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<td>9</td>
</tr>
</tbody>
</table>

BROADCASTING: RADIO PROGRAM MANAGEMENT

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

BUSINESS COMMUNICATION*

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

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

*C each course must be completed at Ohlone College with a grade of B or better.

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</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-121A</td>
<td>Introductory Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART-121B</td>
<td>Introductory Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>ART-122A</td>
<td>Ceramic Throwing I</td>
<td>3</td>
</tr>
<tr>
<td>ART-122B</td>
<td>Ceramic Throwing II</td>
<td>3</td>
</tr>
<tr>
<td></td>
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<td>12</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</th>
<th>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>
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<td>10</td>
</tr>
</tbody>
</table>
CHEMISTRY LAB SKILLS: BASIC

This certificate emphasizes basic laboratory skills including titration, pipetting, UV/Vis spectrophotometry, and solution preparation. Advantageous to any student interested in science, this certificate demonstrates a basic mastery of lab protocols in an inorganic lab setting. This certificate is highly recommended for stock room assistants and similar positions.

CHEM-101A General Chemistry 5
CHEM-101B General Chemistry 5

CISCO CERTIFIED NETWORK ASSOCIATE

Upon completion of the Cisco Certified Network Associate Certificate of Accomplishment 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.

CNET-154 Network Technician Training OR 4
CNET-155A Network Fundamentals AND 4
CNET-155B Routing Protocols and Concepts 4
CNET-156A LAN Switching and Wireless 2
CNET-156B WAN Design and Support 2

COMMERCIAL MUSIC

The Music Department at Ohlone College has developed the Commercial Music Certificate to recognize completion of coursework in a range of commercially oriented music courses. Recipients will have a solid foundation in working with Pro Tools, digital audio, MIDI (Musical Instrument Digital Interface), Studio Recording Techniques, and Live Sound Reinforcement, all of which are basic for work in the field.

MUS-103 Fundamentals of Music 3
MUS-112A ProTools 101 3
MUS-112B ProTools 110 3
MUS-113 Studio Recording 3
MUS-114 Create a CD 2
MUS-116 Sound Reinforcement and Live Recording 3

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 to students with some computer and/or life science background. This program is useful for students who desire to explore this new information science in which computers help to simulate, visualize, and analyze genetic and biological information. It also provides an introduction to the fundamental scientific and computational concepts, methods, and tools central to the growing field of computer applications in biotechnology.

BIOT-112 Introduction to Bioinformatics 2
BIOT-121 Biotechnology Careers 1
CS-131/BIOT-131 Computing Concepts in Biotechnology 4
CS-133/BIOT-133 Introduction to SAS Programming 3
CS-141B/BIOT-141B SAS Graphing and ODS OR 2
CS-143/BIOT-143 Advanced SAS Programming OR 3
CS-133A/BIOT-133A Data Analysis Using SAS 3

COMPUTER PROGRAMMING

Upon completion of the Computer Programming Certificate students will be capable of writing high-level language programs in procedural and event-driven languages and will be able to do some object-oriented programming as well.

CS-102 Introduction to Computer Programming Using C++ 4
CS-104A Introduction to .NET Programming 4
CS-116 Object-Oriented Programming Using C++ OR 4
CS-170 Java Programming (4)
CS-118 Introduction to Assembly Language Programming OR 4
CS-124 Programming with Data Structures (4)

COSTUMING

This certificate signifies that students have mastered the basic skills of costume construction and maintenance as well as the use of theatrical make-up. Successful completion will provide a solid basis for future study in costume design.

ART-106A Descriptive Drawing 3
ID-158 Textiles 3
TD-154 Theatrical Makeup for Stage, TV, and Dance 2
TD-155A Costume Construction I 3
TD-155B Costume Construction II 3
TD-160A-160A2 Production Lab 5-2

COMPUTER AND INFORMATION LITERACY

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

CAOT-153 Introduction to Internet 1
CS-101 Introduction to Computers and Information Technology 3
CS-101L Computer Applications 2
CS-102 Introduction to Computer Programming Using C++ OR 4
CS-104A Introduction to .NET Programming (4)
CS-152 Data Communications 2
DATA COMMUNICATIONS AND WEB PROGRAMMING

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

- CAOT-153 Introduction to Internet: 1
- CS-152 Data Communications: 2
- CS-175 Script Technology for Web Development: 4
- CS-176 Introduction to PERL CGI Programming Development: 4

DATABASE ADMINISTRATION

Database Administration certification combines training, experience, and testing to ensure that students have a strong foundation and expertise in the industry’s most advanced database management system.

- CNET-135 Database Fundamentals I: Database Architecture and Administration: 2
- CNET-136 Database Fundamentals II: Database Backup and Recovery: 2
- CNET-137 Introduction to SQL: 4
- CNET-138 PL/SQL Programming: 4

DEAF EDUCATION

Course offerings for this certificate are designed to provide students with the necessary knowledge and background information on the educational needs of Deaf and hard of hearing children. Historical perspectives and contemporary trends associated with Deaf Education are discussed. The focus of these courses is to provide Deaf and hard of hearing students with opportunities to compare and contrast classroom learning with their own personal experiences.

- DEAF-191 Human Potential Seminar: 2
- DEAF-311 Introduction to American Deaf Culture: 3
- DEAF-330 Educating the Deaf: 3
- DEAF-331 Counseling the Deaf: 3
- DEAF-332 Development of the Deaf Child: 3

DESIGN

The Design Certificate of Accomplishment signifies that students have received exposure to techniques, concepts, color theory, and drawing, with emphases on creative expression and composition. This certificate provides a good foundation for continued study in the field of drawing and design.

- ART-104B 3D Design: 3
- ART-104C Color: 3
- ART-106A Descriptive Drawing: 3
- ART-106B Intermediate Descriptive Drawing: 3

DESKTOP PUBLISHING

Upon completion of the Desktop Publishing Certificate of Accomplishment program students will be capable of using desktop publishing software to design and create printed documents and graphics. In addition, they will acquire basic skills for making presentations.

- CAOT-187 PowerPoint Presentations: .5
- CAOT-188 Desktop Publishing with QuarkXPress: 2
- GA-160A Computer Graphics I: 4
- GA-160B Computer Graphics II OR: 4
- GA-161A Digital Graphics I: (2)

DESKTOP SUPPORT TECHNICIAN

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-160A Microsoft Client Operating Systems: 2
- CNET-161A Desktop Support I – Supporting Users: 2
- CNET-161B Desktop Support II – Supporting Applications: 2

DIGITAL ART

The Digital Art Certificate of Accomplishment 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 Beginning Digital Photography: 3
- ART-160A Computer Graphics I: 4
- ART-161A Digital Graphics I: 2
- ART-160B Computer Graphics II OR: 4
- ART-161B Digital Graphics II AND: (2)
- ART-139B Intermediate Digital Photography: (3)

DRAWING

The Drawing Certificate of Accomplishment signifies that students have received and developed basic drawing skills and techniques and have had exposure to composition, presentation, and creative expression. This certificate provides a firm foundation in the field of art.

- ART-106A Descriptive Drawing: 3
- ART-106B Intermediate Descriptive Drawing: 3
- ART-107A Life Drawing OR: 3
- ART-107B Life Drawing: (3)
- ART-108 Perspective Drawing: 3

DESKTOP SUPPORT TECHNICIAN

- CNET-105 PC Hardware and Software: 4
- CNET-160A Microsoft Client Operating Systems: 2
- CNET-161A Desktop Support I – Supporting Users: 2
- CNET-161B Desktop Support II – Supporting Applications: 2

DIGITAL ART

- ART-139A Beginning Digital Photography: 3
- ART-160A Computer Graphics I: 4
- ART-161A Digital Graphics I: 2
- ART-160B Computer Graphics II OR: 4
- ART-161B Digital Graphics II AND: (2)
- ART-139B Intermediate Digital Photography: (3)

DRAWING

- ART-106A Descriptive Drawing: 3
- ART-106B Intermediate Descriptive Drawing: 3
- ART-107A Life Drawing OR: 3
- ART-107B Life Drawing: (3)
- ART-108 Perspective Drawing: 3
**EARTH AND ENVIRONMENTAL SCIENCES**

This Certificate of Accomplishment signifies that students have received basic knowledge of the earth sciences, environmental problems, and skills, which facilitate paraprofessional employment such as environmental technician, field assistant, as well as internships with various city, county, state, and private agencies. The certificate also provides a good foundation for continued study in the broad and expanding field of environmental sciences.

- BIOL-108 Human Ecology 3
- GEOG-121 Introduction to Geographic Information Systems (GIS) 2
- GEOL-102 Introduction to Oceanography 3
- GEOL-102L Oceanography Laboratory 1
- GEOL-103 Paleontology and Dinosaurs 3
- GEOL-103L Paleontology Laboratory 1

Choose from the following:
- GEOG-101 Physical Geography OR 4
- GEOL-101 Introduction to Geology (4)

**ENVIRONMENTAL STEWARDSHIP**

This Certificate of Accomplishment signifies that students have completed coursework in biological, human, socioeconomic, and political principles as they relate to and are influenced by the environment. The courses include an emphasis on a scientific understanding of the environment, social and economic concepts, and an awareness of the behaviors that protect or damage the earth and its resources. On completion of this certificate students will have the ability to better understand their relationship with the planet and obtain an understanding of how their behavior (including energy and natural resource use) affects the environment they inhabit. This certificate provides an excellent background for the various careers in the fields of environmental studies, environmental sciences, public policy, and energy management.

- ENV S-101 Natural Resource Management 3
- ENV S-102 Environmental Law and Regulations 3
- ENV S-103 The Environment and Human Health 3
- ENV S-108 Human Ecology 3
- ENV S-142 Environmental Biology 4

**ELECTRONIC MUSIC COMPOSITION**

The Music Department at Ohlone College has developed the Electronic Music Composition Certificate to recognize the completion of acquired skills in the field of electronic music composition. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set in electronic music and composition, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

- MUS-103* Fundamentals of Music 3
- MUS-110A Music Theory and Harmony 3
- MUS-111A Musicianship 1
- MUS-112A ProTools 101 3
- MUS-112B ProTools 110 3

*Students may test out of this course using Credit by Examination. Credit by Examination can only be used to complete two out of the four required courses. At least two semesters must be completed in residence at Ohlone.

**FINE ARTS**

The Fine Arts Certificate of Accomplishment recognizes the completion of acquired skills in the field of Fine Arts. This certificate gives students a broad understanding of modern or ancient art.

- ART-103A Survey of World Art History – Prehistoric through 1300 C.E. OR 4
- ART-103B Survey of World Art History – 14th Century through 20th Century (4)
- ART-104A 2D Design 3
- ART-106A Descriptive Drawing 3
- ART-107A Life Drawing OR 3
- ART-117A Museum and Gallery Techniques (Exhibition Production) (2)

**ENGINEERING**

This certificate demonstrates that students have completed classes that serve as a beginning foundation for a career in engineering. These courses emphasize the application of scientific and mathematical principles to solving practical problems.

- MATH-104 Differential Equations 5
- PHYS-141 Electricity and Magnetism 4

Choose one course from the following:
- ENGI-120 Engineering Mechanics – Statics OR 3
- ENGI-130 Electric Circuit Analysis OR (4)
- ENGI-140 Materials Engineering (4)

**FITNESS INSTRUCTOR**

The Fitness Instructor Certificate of Accomplishment provides the instruction, skills, knowledge, and experience that facilitate employment in a job setting such as sports and fitness centers. The certificate provides an excellent foundation for students interested in a career in exercise science, athletic training, physical therapy, and other health related careers.

- KIN-251 Fitness for Life 3
- KIN-256 Sports Performance Testing OR 2
- HLTH-101 Contemporary Health Issues (3)
- KIN-257 Prevention and Care of Athletic Injuries 4
- KIN-258 Exercise Prescription 3
- KIN-382 Clinical Experiences in Sports Medicine II 2

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The Fitness Instructor Certificate of Accomplishment provides the instruction, skills, knowledge, and experience that facilitate employment in a job setting such as sports and fitness centers. The certificate provides an excellent foundation for students interested in a career in exercise science, athletic training, physical therapy, and other health related careers.

- KIN-251 Fitness for Life 3
- KIN-256 Sports Performance Testing OR 2
- HLTH-101 Contemporary Health Issues (3)
- KIN-257 Prevention and Care of Athletic Injuries 4
- KIN-258 Exercise Prescription 3
- KIN-382 Clinical Experiences in Sports Medicine II 2
**FORENSICS**

This certificate provides students with training in speaking competitively.

- SPCH-101 Introduction to Public Speaking 3
- SPCH-110A Forensics Workshop OR 6
- SPCH-112A Argumentation and Debate Workshop OR 6
- SPCH-114A Oral Interpretation Workshop 6
- SPCH/TD-132 Voice and Diction 3

*Each course must be completed at Ohlone College with a grade of B or better.

**GENDER AND WOMEN’S STUDIES**

This curriculum is designed to prepare students to explore the condition of women’s lives, in of themselves, in relation to each other, and to men. We will assume that these conditions are not the same for all women, that they change historically and oftentimes according to culture, race, ethnicity, class, or sexuality.

- WS-101 Introduction to Gender and Women’s Studies 3
- Choose three courses from the following: 9
  - CHS-112 Contemporary Issues of Chicanas 3
  - HIST-119A Bad Girls: Women in America Before 1890 3
  - HIST-119B Bad Girls: Women in America From 1890 3
  - SPCH-108 Gender Communication 3
  - WS-115 Women in Literature 3
  - WS-120 Women of the Western World 3
  - WS-132 Introduction to US Muslim Women and Islam 3
  - WS-150 Women’s Health Issues 3

**GEOGRAPHIC INFORMATION SYSTEMS (GIS)**

GIS is a computer-based database management system for capture, storage, retrieval, analysis, and display of spatial data. Students who complete this program will be better prepared to map data for decision-making in business, environmental protection, risk assessment, utility planning and management, emergency response, land use planning, transportation planning, delivery route planning, real estate, and crime prevention.

- GEOG-121 Introduction to Geographic Information Systems (GIS) 2
- GEOG-122 Environmental GIS 2
- GEOG-123 GIS Projects 1

Choose one course or combination of courses from the following: 3-5

- ANTH-102 Cultural Anthropology (3)
- ANTH-105 Field Archaeology (3)
- ENV-108 Human Ecology (3)
- GEOG-101 Physical Geography (4)
- GEOG-102 Cultural Geography (3)
- GEOG-104 The World’s Nations (3)
- GEOG-105 California Geography (3)
- GEOG-101 Introduction to Geology (4)
- RE-122 Real Estate Practice (3)
- SOC-102 Social Problems of a Diverse Society (3)

**GEOGRAPHY: CULTURAL**

This Certificate of Accomplishment 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.

- BIOI-108 Human Ecology 3
- GEOG-101 Physical Geography 4
- GEOG-102 Cultural Geography 3
- GEOG-104 The World’s Nations 3

**GEOGRAPHY: PHYSICAL**

The Physical Geography Certificate is awarded for studies in geology and related courses; emphasis is placed on human modification of the physical environment and ecology. Students explore weather and climate, land forms, soil, water quality, and environmental management. This certificate is a good foundation for students interested in environmental fields.

- GEOG-101 Physical Geography 4
- GEOG-104 The World’s Nations 3
- GEOL-101 Introduction to Geology 4

Choose one course from the following:

- BIOI-108 Human Ecology OR 3
- BIOI-140 Sierra Nevada Natural History (3)

**GEOLOGY**

This Certificate of Accomplishment 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.

- GEOG-121 Introduction to Geographic Information Systems (GIS) 2
- GEOL-101 Introduction to Geology 4
- GEOL-102 Introduction to Oceanography 3
- GEOL-102L Oceanography Laboratory 1
- GEOL-103 Paleontology and Dinosaurs 3
- GEOL-103L Paleontology Laboratory 1

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- BIOI-108 Human Ecology 3
- GEOG-101 Physical Geography 4
- GEOG-102 Cultural Geography 3
- GEOG-104 The World’s Nations 3

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- GEOG-101 Physical Geography 4
- GEOG-104 The World’s Nations 3
- GEOL-101 Introduction to Geology 4

Choose one course from the following:

- BIOI-108 Human Ecology OR 3
- BIOI-140 Sierra Nevada Natural History (3)

**GEOLOGY**

This Certificate of Accomplishment 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.

- GEOG-121 Introduction to Geographic Information Systems (GIS) 2
- GEOL-101 Introduction to Geology 4
- GEOL-102 Introduction to Oceanography 3
- GEOL-102L Oceanography Laboratory 1
- GEOL-103 Paleontology and Dinosaurs 3
- GEOL-103L Paleontology Laboratory 1

**GEOGRAPHY: CULTURAL**

This Certificate of Accomplishment 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.

- BIOI-108 Human Ecology 3
- GEOG-101 Physical Geography 4
- GEOG-102 Cultural Geography 3
- GEOG-104 The World’s Nations 3

**GEOGRAPHY: PHYSICAL**

The Physical Geography Certificate is awarded for studies in geology and related courses; emphasis is placed on human modification of the physical environment and ecology. Students explore weather and climate, land forms, soil, water quality, and environmental management. This certificate is a good foundation for students interested in environmental fields.

- GEOG-101 Physical Geography 4
- GEOG-104 The World’s Nations 3
- GEOL-101 Introduction to Geology 4

Choose one course from the following:

- BIOI-108 Human Ecology OR 3
- BIOI-140 Sierra Nevada Natural History (3)
GLASS
The Glass Certificate of Accomplishment 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.

ART-105A Glass Art and Design 3
ART-105B Advanced Glass Fabrication 3
ART-105C 3D Glass 3
ART-116A Basic Sculpture OR 3
ART-121A Introductory Ceramics I (3) 12

GRAPHIC DESIGN
The Graphic Design Certificate of Accomplishment 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.

ART-109A Beginning Graphic Design I 3
ART-109B Beginning Graphic Design II 3
ART-110A Advanced Graphic Design I 3
ART-110B Advanced Graphic Design II 3 12

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

SPCH-105 Intercultural Communication 3
SPCH-103 Interpersonal Communication OR 3
SPCH-122 Family Communication (3)
SPCH-110A-3 Forensics Workshop OR 1-3
SPCH-112A-3 Argumentation and Debate Workshop OR (1-3) 7-9
SPCH-114A-3 Oral Interpretation Workshop (1-3) 7-9

*Each course must be completed at Ohlone College with a grade of B or better.

INTERIOR DESIGN BASICS
This Certificate of Accomplishment signifies that students have received exposure to the major components of Interior Design. This certificate provides a firm foundation for continued study in the field of Interior Design.

ART-104B 3D Design 3
ART-104C Color 3
ID/ART-150A Interior Design Concepts 3
ID/ART-153 History of Decorative Arts 3
ID/ART-158 Textiles 3
ID/ART-154 Contemporary Home Design OR 2
ID/ART-159A Applied Design: Residential Lighting AND 1
ID/ART-159B Applied Design: Color for the Home (1) 17

INTERNATIONAL BUSINESS
This Certificate of Accomplishment signifies that students have developed basic business knowledge and skills associated with International Business. This certificate provides a foundation for continued study in the field of International Business.

BA-115 Career Communication 3
BA-136 Introduction to International Business 3
BA-137 Introduction to International Marketing 3
BA-141C An Introduction to International Law OR 3
BA-142 International Economics (3)
SPCH-105 Intercultural Communication 3
WEX-185A2 Work Experience Education OR 2
BA-138A Services Export Marketing AND 1
WEX-185A1 Work Experience Education (1) 17

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

CS-170 Java Programming 4
CS-175 Script Technology for Web Development OR 4
CS-178 XML (3) 7-8
INTERPERSONAL COMMUNICATION*

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

SPCH-102 Critical Thinking/Group Decision Making OR 3
SPCH-104 Critical Thinking/Persuasion (3)
SPCH-103 Interpersonal Communication 3
SPCH-110A-1 Forensics Workshop OR 3
SPCH-112A-1 Argumentation and Debate Workshop OR (1-3)
SPCH-114A-1 Oral Interpretation Workshop (1-3)

7-9

*Each course must be completed at Ohlone College with a grade of B or better.

JAVA DEVELOPER

Upon completion of the Java Developer Certificate Program students will be capable to develop advanced Java programs and applications for the client-server computing, the Internet, and the Web Services with JSP, J2EE, and EJB.

CS-170 Java Programming 4
CS-172 Servlets and JSP 4
CS-173 Java EE and EJB 4
CS-178 XML 3

15

JAZZ DANCE TEACHER/CHOREOGRAPHER

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

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

TD-121C Dance Rehearsal and Performance 4
TD-121L Dance Rehearsal and Performance Lab 0
TD-142A Introduction to Jazz Dance AND 2
TD-142B Intermediate Jazz Dance AND 2
TD-142C Advanced Jazz Dance OR 2
TD-142B Intermediate Jazz Dance (taken twice) AND (4)
TD-142C Advanced Jazz Dance (2)
TD-160L Production Lab 0
TD-149 Choreography for Production 2
TD-152 Introduction to Lighting 3
TD-161 Stagecraft Lab (Theatre, Television, Dance) 1

16

JOURNALISM

Upon completion of the Journalism certificate, students will have gained a basic knowledge of the newspaper, magazine, public relations, and advertising fields. Writing, visualization, and story-telling are the basic skills of all media work. The Journalism certificate covers these and more.

BA-129 Introduction to Advertising 3
JOUR-101A Newswriting 3
JOUR/ART-145 Digital Photojournalism 2
JOUR/BRDC-155 Mass Media and Society 3
JOUR-172 Newspaper Staff 3

14

LEADERSHIP COMMUNICATION*

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

SPCH-101 Introduction to Public Speaking 3
SPCH-102 Critical Thinking/Group Decision Making OR 3
SPCH-104 Critical Thinking/Persuasion OR (3)
SPCH-106 Critical Thinking/Argumentation and Debate (3)
SPCH-103 Interpersonal Communication OR 3
SPCH-105 Intercultural Communication (3)
SPCH-107 Leadership Communication 3
SPCH-110A-1 Forensics Workshop OR 2-3
SPCH-110A-2 Forensics Workshop OR (2)
SPCH-110A-3 Forensics Workshop OR (3)
SPCH-112A-1 Argumentation and Debate Workshop OR (2-3)
SPCH-112A-2 Argumentation and Debate Workshop OR (2)
SPCH-112A-3 Argumentation and Debate Workshop OR (3)
SPCH-114A-1 Oral Interpretation Workshop OR (1)
SPCH-114A-2 Oral Interpretation Workshop OR (2)
SPCH-114A-3 Oral Interpretation Workshop (3)

13-15

*Each course must be completed at Ohlone College with a grade of B or better.

LINUX+

Preparation for the current CompTIA Linux+ credential. Linux+ certified individuals can explain fundamental management of Linux systems from the command line, demonstrate knowledge of user administration, understand file permissions, software configurations, and management of Linux-based clients, server systems and security.

CNET-140A Linux Installation and Configuration 2
CNET-140B Linux System Administration 2
CNET-150 Network Operating Systems 4

8
LINUX/UNIX ADMINISTRATION
This program series targets both beginning and intermediate Linux/UNIX users who want to acquire advanced system administration skills and to back up those skills with a Certificate of Accomplishment.

- CNET-140A Linux Installation and Configuration 2
- CNET-140B Linux System Administration 2
- CNET-142A Linux Networking 2
- CNET-142B Linux Security 2
- CNET-146 Introduction to UNIX/Linux 3
- CNET-147 UNIX/Linux Shell Scripting 4

15

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.

- BSM-101 Fundamentals of Supervision 3
- TD-150 Technical Theatre 3
- TD-159 Theatre Management 3
- TD-160A-160A2 Production Lab .5-2
- TD-170 Survey of Entertainment Design 3
- TD-179 Introduction to Stage Management 3

15.5-17

MASS COMMUNICATION
The Mass Communication certificate provides students with communication skills, theory, and training required for academic and professional careers in the mass communication field including journalism, TV, radio, and public relations. This certificate also provides students with the fundamental communication skills for further study in mass communication.

- BRDC-120 Introduction to Electronic Media 2
- JOUR-101A Newswriting 3
- JOUR-155 Mass Media and Society 3
- SPCH-101 Introduction to Public Speaking 3
- BRDC-123A Radio Operations I OR 3
- BRDC-141 Live TV Newscast OR (3)
- JOUR-170 Newspaper Writing and Editing Staff OR (1)
- JOUR-171 Newspaper Writing and Editing Staff OR (2)
- JOUR-172 Newspaper Writing and Editing Staff (3)

12-14

MATHEMATICS: APPLIED
The certificate in Applied Math provides students with the mathematical background required to succeed in subsequent courses in math, physics, and engineering.

- MATH-101C Calculus with Analytic Geometry 5
- MATH-104 Differential Equations 5
- PHYS-140 Mechanics 4

14

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.

- MATH-101C Calculus with Analytic Geometry 5
- MATH-103 Introduction to Linear Algebra 3
- MATH-104 Differential Equations 5

13

MICROSOFT CERTIFIED SYSTEMS ADMINISTRATOR (MCSA)
The Microsoft Certified Systems Administrator (MCSA) certification helps you advance your career by ensuring that you have the skills you need to manage and troubleshoot network environments running on the Windows operating system.

- 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-165A Designing a Secure Microsoft Windows Network OR 2
- CNET-167A Network Application Administration I – Email (Exchange 2003) OR (2)
- CNET-168A Network Application Administration II – Database (SQL) (2)

8
### MICROSOFT CERTIFIED SYSTEMS ENGINEER (MCSE)

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 2008 Server and the Microsoft Back Office integrated family of server products.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162A</td>
<td>Microsoft Server Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162B</td>
<td>Windows Network Infrastructure Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-164A</td>
<td>Microsoft Directory Services</td>
<td>2</td>
</tr>
</tbody>
</table>

Choose any two of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-163</td>
<td>Planning a Microsoft Windows Networks Infrastructure</td>
<td>2</td>
</tr>
<tr>
<td>CNET-164B</td>
<td>Designing Microsoft Windows Directory Services Infrastructure</td>
<td>2</td>
</tr>
<tr>
<td>CNET-165A</td>
<td>Designing a Secure Microsoft Windows Network</td>
<td>2</td>
</tr>
<tr>
<td>CNET-165B</td>
<td>Microsoft Internet Security and Acceleration Server (ISA)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-165C</td>
<td>Administering Security for Windows 2003</td>
<td>2</td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Network Application Administration I – Email (Exchange 2003)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Network Application Administration II – Database (SQL)</td>
<td>2</td>
</tr>
</tbody>
</table>

### MODERN DANCE TEACHER/CHOREOGRAPHER

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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</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>
</tbody>
</table>

### MULTIMEDIA

This certificate provides students with technical, artistic, and creative skills to develop graphics, animations, videos, and interactive projects.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM-102A</td>
<td>Multimedia I</td>
<td>4</td>
</tr>
<tr>
<td>MM-104</td>
<td>Advanced Interactivity in Flash</td>
<td>3</td>
</tr>
<tr>
<td>MM-110</td>
<td>Digital Video for Web and DVD</td>
<td>4</td>
</tr>
<tr>
<td>GA/ART/BA/CS-160A</td>
<td>Computer Graphics I</td>
<td>4</td>
</tr>
</tbody>
</table>

# MUSIC THEORY: ADVANCED

The Music Department at Ohlone College has developed the Advanced Music Theory Certificate to recognize the completion of acquired skills in the field of advanced music theory and musicianship. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set in music theory and musicianship, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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-111C</td>
<td>Advanced Musicanship</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111D</td>
<td>Advanced Musicanship</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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-100</td>
<td>Survey of the Arts OR</td>
<td>3</td>
</tr>
<tr>
<td>MUS-101</td>
<td>Introduction to Music – Western Classical Music OR</td>
<td>(3)</td>
</tr>
<tr>
<td>MUS-102</td>
<td>Music Appreciation</td>
<td>(3)</td>
</tr>
</tbody>
</table>

# MUSIC THEORY: INTRODUCTORY

The Music Department at Ohlone College has developed the Introductory Music Theory Certificate to recognize the completion of acquired skills in the field of music theory and musicianship. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set in music theory and musicianship, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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-111A</td>
<td>Musicanship</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111B</td>
<td>Musicanship</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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-100</td>
<td>Survey of the Arts OR</td>
<td>3</td>
</tr>
<tr>
<td>MUS-101</td>
<td>Introduction to Music – Western Classical Music OR</td>
<td>(3)</td>
</tr>
<tr>
<td>MUS-102</td>
<td>Music Appreciation</td>
<td>(3)</td>
</tr>
</tbody>
</table>

# NETWORK TECHNICIAN

Network Technicians assist in the installation, configuration, testing, maintenance, and troubleshooting of LANs and/or WANs. They are responsible for routine tasks such as adding new accounts, assigning passwords, and keeping a variety of logs. They should have knowledge of networking fundamentals; connecting to a WAN; basic security and wireless concepts; routing and switching fundamentals; the TCP/IP and OSI models; IP addressing; WAN technologies; operating and configuring IOS devices; configuring RIPv2, static and default routing; implementing NAT and DHCP; and configuring simple networks.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
<td>4</td>
</tr>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-154</td>
<td>Network Technician Training</td>
<td>4</td>
</tr>
</tbody>
</table>

104 7 CURRICULUM GUIDES
OFFICE COMPUTER APPLICATIONS

Upon completion of the Office Computer Applications Certificate of Accomplishment 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.

BA-109A Computerized Accounting for Personal Finance 1.5
BA-109B Computerized Accounting for Small Business (1.5)
CAOT-134A Beginning Microsoft Access .5
CAOT-153 Introduction to Internet 1
CAOT-172A Beginning Word .5
CAOT-187 PowerPoint Presentations .5
CAOT-188 Desktop Publishing with QuarkXPress 2
CAOT-193A Beginning Excel .5
CAOT-193B Intermediate Excel .5
CAOT-194A MS Office Advanced OR 2
CS-101L Computer Applications (2) 9

OFFICE SUPPORT

Upon completion of the Office Support Certificate of Accomplishment students will have gained a knowledge of how a business functions and human relations in business. In addition, students will have acquired basic office support skills.

BA-116 Business English and Communication 4
CAOT-110A, B, or C Beginning Keyboarding I, II, or III 1
CAOT-193A Beginning Excel .5
CS-101L Computer Applications 2 7.5

ORAL INTERPRETATION*

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

SPCH-110A1-3 Forensics Workshop OR 1-3
SPCH-112A1-3 Argumentation and Debate Workshop OR (1-3)
SPCH-114A1-3 Oral Interpretation Workshop (1-3)
SPCH/TD-130 Oral Interpretation of Literature 3
SPCH/TD-132 Voice and Diction 3 7-9

*Each course must be completed at Ohlone College with a grade of B or better.

PAINTING

The Painting Certificate of Accomplishment signifies that students have received exposure to the basic studio painting techniques and experiences with regard to color, composition, and subject matter. This certificate will give students a broad understanding of the art of painting.

ART-106A Descriptive Drawing 3
ART-111A Painting – Color and Composition 3
ART-111B Painting 3
ART-112 Watercolor 3 12

PALEOBIOLOGY/NATURAL HISTORY

This Certificate of Accomplishment signifies that students have received basic knowledge in natural sciences and skills, which facilitate paraprofessional employment such as geological/biological field assistant and field naturalist. It also provides a good foundation for continued study in a broad variety of scientific fields including Biology, Geology, and Paleontology.

ANTH-101 Physical Anthropology 4
BIOL-130 Introduction to Biology 4
GEOL-103 Paleontology and Dinosaurs 3
GEOL-103L Paleontology Laboratory 1
Choose one from the following:
GEOG-101 Physical Geography OR 4
GEOL-101 Introduction to Geology (4) 16-17

PHLEBOTOMY

The Health Sciences and Environmental Sciences Division offers a certificate program in phlebotomy that meets all of the Department of Health Services regulations (AB 1557) that became effective in January 2002. This program is approved by the Department of Health Services for the courses that include theory and lab practice plus a 108-hour externship. No transfer courses from other institutions are accepted for this certificate. Completion of this certificate allows students to sit for the A.S.P.T. exam as required by California State Bill AB 1557. All courses must be passed at Ohlone College with at least a grade of C to earn the certificate.

AH-110 Medical Terminology 4
AH-117A Basic Phlebotomy Training 2
AH-117B Phlebotomy Skills Lab .5
AH-117C Advanced Phlebotomy Training 1.5
AH-117D Phlebotomy Externship 2 10
PHOTOGRAPHY

The Photography Certificate of Accomplishment signifies that students have acquired skills in fundamental processes of photography including traditional and digital work processes with emphasis on creative expression. This certificate helps students develop concepts and skills that will enable them to develop creatively in the fine arts.

ART-131 History of Photography 3
ART-133A Black and White Photography OR 3
ART-133B Intermediate Black and White Photography (3)
ART-138A Beginning Photoshop 3
ART-138B Intermediate Photoshop (3)
ART-139A Beginning Digital Photography OR 3
ART-139B Intermediate Digital Photography (3)

12

PHYSICS: ADVANCED

This certificate provides students with a solid physical and mathematical foundation of the general principles and theorems of physics, as well as experience with measurements of important physical quantities in the fields of mechanics, electricity and magnetism, optics and thermal physics.

Upon completion of this certificate students will be very well prepared to engage in continued and fundamental studies in the fields of engineering, physics, mathematical physics, or astronomy. The certificate also prepares students to work in various research institutions and companies as research assistant or on internships.

MATH-101C Calculus with Analytic Geometry 5
PHYS-140 Mechanics 4
PHYS-141 Electricity and Magnetism 4
PHYS-142 Optics, Heat, and Modern Physics 4

17

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.

MATH-181 Trigonometry 3
PHYS-135 Physical Science 4
PHYS-120 Introduction to Physics I 4
PHYS-121 Introduction to Physics II 4

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 the following:
MUS-103 Fundamentals of Music 3

7

Students who passed Fundamentals of Music using Credit by Examination must select and complete one of the following options as a substitute.

MUS-100 Survey of the Arts OR 3
MUS-101 Introduction to Music – Western Classical Music OR (3)
MUS-102 Music Appreciation OR (3)
MUS-125 History of Rock and Roll: Music and Culture Since the 1970’s (3)

*Students may test out of this course using Credit by Examination. Credit by Examination 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

Students may subsequently complete the Certificate of Accomplishment in Real Estate Sales Broker Associate and the Certificate of Achievement in Real Estate Sales Broker. A person entering the real estate field in the State of California must qualify as a sales agent before practicing in sales, mortgage sales, or business sales.

RE-117 Computer Applications in Real Estate 3
RE-121 Real Estate Principles 3

Choose a minimum of two courses from the following:
BA-102A Principles of Economics-Macroeconomics 3
BA-102B Principles of Economics-Microeconomics 3
BA-106 Applied Accounting 3
RE-122 Real Estate Practice 3
RE-124 Legal Aspects of Real Estate OR 3
BA-141A Business Law (3)
RE-126 Real Estate Finance 3
RE-128 Real Estate Appraisal 3
RE-149 Real Estate Property Management 3

REAL ESTATE SALES BROKER ASSOCIATE

After completing the certificate for Real Estate Sales Agent, 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 and then completing the Real Estate Sales Broker Certificate of Achievement.

RE-122 Real Estate Practice 3
RE-124 Legal Aspects of Real Estate OR 3
BA-141A Business Law (3)
RE-126 Real Estate Finance 3

Choose a minimum of two courses from the following (minimum 6 units)
BA-102A Principles of Economics-Macroeconomics 3
BA-102B Principles of Economics-Microeconomics 3
BA-106 Applied Accounting 3
RE-128 Real Estate Appraisal 3
RE-149 Real Estate Property Management 3

SCULPTURE

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

ART-105A Glass Art and Design 3
ART-116A Basic Sculpture 3
ART-116B Advanced Sculpture 3
ART-121A Introductory Ceramics I 3

SOCIOMETRY

This certificate will provide students with an academic foundation in the area of sociometry.

SOC-101 Introduction to Sociology 3
SOC-102 Social Problems of a Diverse Society 3
SOC-105 Marriage and Family 3

Choose two courses from the following:
ANTH-102 Cultural Anthropology 3
PS-103 International Relations 3
PSY-101 General Psychology 3
PSY-108 A Survey of Human Development 3

SPEECH AND COMMUNICATION STUDIES*

This certificate provides students with competent communication skills used in both academic and professional settings.

SPCH-101 Introduction to Public Speaking 3
SPCH-110A-13 Forensics Workshop OR 1-3
SPCH-112A-13 Argumentation and Debate Workshop OR (1-3)
SPCH-114A-13 Oral Interpretation Workshop (1-3)

Choose two courses from the following:
SPCH-102 Critical Thinking/Group Decision Making 3
SPCH-103 Interpersonal Communication 3
SPCH-104 Critical Thinking/Persuasion 3
SPCH-105 Intercultural Communication 3
SPCH-106 Critical Thinking/Argumentation and Debate 3
SPCH/BA-115 Career Communication 3
SPCH-122 Family Communication 3
SPCH/ID-13 Oral Interpretation of Literature 3
SPCH/ID-132 Voice and Diction 3

*Each course must be completed at Ohlone College with a grade of B or better.

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 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 3
TD-160A-160A2 Production Lab .5-2
TD-170 Survey of Entertainment Design 3
TD-171 3D Entertainment Design for Lighting 3
TD/BRDC-180 Make a Movie 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

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, 367 Choral Ensembles** 3
368, or 394

14

*Students may test out of Fundamentals of Music by passing an exam.

**Students must take 3 classes for a total of 3 units.

VOCAL MUSIC PERFORMANCE: ADVANCED

The Music Department at Ohlone College has developed the Advanced Vocal Performance Certificate to recognize the completion of acquired skills in the field of advanced vocal performance. Students who demonstrate the industry and passion to finish this program will be rewarded with an expanded skills-set of vocal technique, the conceptual tools to apply the same techniques to other life tasks, and the continued pride of program completion.

MUS-160A Beginning Class Piano 1
MUS-162E Vocal Repertoire 2
MUS-162F Vocal Repertoire 2
MUS-166C Applied Music 1
MUS-166D Applied Music 1
MUS-356, 367 Choral Ensembles** 3
368, or 394

10

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-162</td>
<td>XHTML</td>
<td>4</td>
</tr>
<tr>
<td>CS-178</td>
<td>XML</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose 9-10 units from the following courses:</td>
<td></td>
</tr>
<tr>
<td>MM-102A</td>
<td>Multimedia I</td>
<td>4</td>
</tr>
<tr>
<td>CS-175</td>
<td>Script Technology for Web Development</td>
<td>4</td>
</tr>
<tr>
<td>CS-179</td>
<td>Dynamic Web with ColdFusion</td>
<td>3</td>
</tr>
<tr>
<td>MM-103A</td>
<td>Introduction to Flash: Animation AND</td>
<td>.5</td>
</tr>
<tr>
<td>MM-103B</td>
<td>Intermediate Flash: Interactivity</td>
<td>.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16-17</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-104A</td>
<td>Introduction to .NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-104B</td>
<td>Advanced .NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-104C</td>
<td>ASP.NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-121</td>
<td>Applied Programming in Visual C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-122</td>
<td>C# .NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-149</td>
<td>PERL Programming</td>
<td>4</td>
</tr>
<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-176</td>
<td>Introduction to PERL CGI Programming Development</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

WEB DESIGN

This certificate provides students with knowledge, skills, and hands-on experience using industry standard software to create web sites that are attractive, accessible, and functional. The curriculum emphasizes design principles applied to layouts, graphics, animations, and interactive applications for the Web.

<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-104</td>
<td>Advanced Interactivity in Flash</td>
<td>3</td>
</tr>
<tr>
<td>MM-105</td>
<td>Web Site Design</td>
<td>4</td>
</tr>
<tr>
<td>MM-106</td>
<td>Advanced Web Site Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-140A</td>
<td>Linux Installation and Configuration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-140B</td>
<td>Linux System Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</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></td>
<td>Choose one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>CS-104D</td>
<td>Web Services for .NET</td>
<td>3-4</td>
</tr>
<tr>
<td>CNET-137</td>
<td>Introduction to SQL</td>
<td>4</td>
</tr>
<tr>
<td>CNET-157</td>
<td>TCP/IP and Internetworking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15-16</td>
</tr>
</tbody>
</table>

WORK READINESS

Many Deaf students are interested in coming to Ohlone to gain the necessary skills for entry-level employment. For those students with limited academic skills, Ohlone offers a 3-semester work-study Certificate of Accomplishment. At the completion of these courses students will be awarded a Certificate of Accomplishment, along with a positive letter of reference for their employer.

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-140A</td>
<td>Lifeskills Mathematics I</td>
<td>2</td>
</tr>
<tr>
<td>DEAF-141A</td>
<td>Workplace Communication I</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-143</td>
<td>Deaf Vocational Awareness</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-140B</td>
<td>Lifeskills Mathematics II</td>
<td>2</td>
</tr>
<tr>
<td>DEAF-141B</td>
<td>Workplace Communication II</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-146</td>
<td>Work Experience Seminar</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-145B</td>
<td>Job Seeking Strategies for Deaf Students</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Units Required: 17</td>
</tr>
</tbody>
</table>

Did you know???

Ohlone College has 28 different clubs and 14 co-curricular activities.
Ohlone College has, in addition to college transfer courses, programs that 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**

Lucia Au Chao
CPA, Accounting Faculty, Ohlone College

Ronald Hanson
Hanson & Associates

Maria Ku
CPA, Accounting Faculty, Ohlone College

De-Hwei O’Shaughnessy
Alumna, Ohlone College

Alan Olsen
Managing Partner, Greenstein, Rogoff, Olsen & Co., CPAs

Vern Piumarta
Accounting Faculty, Ohlone College

Ed Robinson
CPA, Edward Robinson, Certified Public Accountants

Carolyn Strickler
Accounting Faculty, Ohlone College

Gary Yamashita
Senior Analyst, Chevron Corporation

Eric Yap
Senior Business Analyst, Adept Technology

Lloyd Yarbrough
Controller, Omniuron Corporation

**ADMINISTRATION OF JUSTICE**

Dale Amaral
Sheriff, Alameda County

Timothy Anderson
Chief of Police, East Bay Regional Park Police

Richard Cominos, Sr.
Assistant Professor/Coordinator, Administration of Justice Department, Ohlone College

Gary Gee
Chief of Police, BART Police Department

Dennis Graham
Chief of Police, Milpitas Police Department

Richard Keller
Superior Court Judge, Alameda County

Richard Klemmer
Assistant District Attorney, Alameda County

Don Lane
POST Representative, California Department of Justice

Steven M. Osaka
Chief, Safety and Security, Ohlone College

George Rodgers
Anthropology/Geography/Geology Faculty, Ohlone College

**ALLIED HEALTH**

Rudee Aguilar
Lab Supervisor, Washington Hospital

Traleta Bradford
Phlebotomy Instructor, Ohlone College

**Ray Samuels**
Chief of Police, Newark Police Department

**Mikelyn Stacey**
Dean, Humanities, Social Sciences, and Mathematics; Ohlone College

**Craig Steckler**
Chief of Police, City of Fremont

**Greg Stewart**
Chief of Police, City of Union City

**Robert Wasserman**
Mayor, City of Fremont; Retired Chief of Police, City of Fremont

**Pauline Weaver**
Deputy Public Defender, Alameda County

**Dr. Patricia Zajac**
Professor and Chair of Criminal Justice Department, California State University, East Bay
BIOTECHNOLOGY

Ken Baker
Head of Staffing, Diversity, and Inclusion, Novartis Vaccines and Diagnostics

Dr. Mark Barnby
Biology Faculty, Ohlone College

Dr. Jim Baxter
Biology Faculty, Ohlone College

Terry Calarco
Novartis Vaccines and Diagnostics

Jesse Casados
Manager, Research and Development, Boston Scientific

Patti Castro, SSA
WIL, Alameda County

Yani Chen
Spring Bioscience

Holly J. Clark
Scientist, Metabolex

Clay Colvin
Economic Development Manager, City of Newark

Jeff Demmitt
Repair Technician, Biolytic

Tom Demmitt
President, Biolytic

Marites Dominguez
Human Resources Manager, Metabolex

Kim Edmonds
Executive Administrator, Biolytic

Christine Friday
Economic Development Coordinator, City of Union City

Kelly Green
Ohlone College

Dr. Bipin Gupta
President and CEO, Diagnostic Biosystems

Dr. Fred Hempel
Owner, Baia Nicchia

Sue Hinojoza
Biotechnology Teacher, James Logan High School

Laurie Issel-Tarver
Biotechnology Faculty, Ohlone College

Daniel Johnson
LAB Teacher, Biotechnology, Newark Memorial High School

Millie Kessler
Vice Principal, Newark Memorial High School

Iqbal Khan
Scientist, Applied Biosystems

Peggy Kraus
Corporate Communications, Amgen

Michael Leung
Dean of Science, California State University, East Bay

Elizabeth Lopez
Biotechnology Teacher, Granada High School

Ed Louie
Production Director, Genetope Corporation

Michelle Mensinger
Chair, Science Department, Newark Memorial High School

Tim Morken
Technical Support Manager, Thermo Scientific

Yvette Nicolls
Chemistry Faculty, Ohlone College

Dr. Ken Olson
Director, Research and Development, Allergan

Barbara Poole
Human Resources Manager, CellGenesys Inc.

Sally Porfido
Economic Development Manager, City of Hayward

Joseph Prado
Scientist, CellGenesys Inc.

Dr. Ron Quinta
Dean, Science, Technology, and Engineering; Ohlone College

Connie Randall-Fuller
CellGenesys Inc.

Ruben Rathnasingham
Vice President, Development, Corum

Peter Repetti
Mendel Biotechnology

Brenda Richardson
Biotechnology Teacher, Tennyson High School

Robert Sakai
Technology & Trade Director, East Bay Economic Development Alliance for Business (EBEDAB)

Josie Sette
Director, California Applied Biotechnology Center, Ohlone College

Nita Sharma
Biotechnology Professor, Ohlone College

Dave Smith
Mayor, City of Newark

Frances Stack
Senior Manager, Learning and Performance, Amgen

Leta Stagnaro
Associate Professor, Newark Center for Health Sciences and Technology, Ohlone College

Mike Sugarman
Scientist/Lab Manager, Diagnostic Biosystems

Anu Suresh
Biotechnology Faculty, Ohlone College

Arleen Takayama
Spring Bioscience

Glenn Takayama
Spring Bioscience

Frankie Tate
Biotechnology Coordinator, Granada High School

Lori Taylor
Economic Development Manager, City of Fremont

Gulliver Timoteo
Senior Development Associate, Tethys

Robert To
Scientist, Xoma Ltd.

Henry Valdez
Amgen

Angelique Walt
Adjunct Faculty, Biology, Ohlone College

Sandi Woods
Operations Manager, Genecor

Patricia Wu
Biotechnology Coordinator, Chabot College

Hailying Xia
Chief Scientific Officer, Spring Bioscience

Kesinee Yip
Assistant Director, Site Communications, Novartis

Michael Yoshida
Senior Manager, Manufacturing and Technical Support, Allergan

BROADCASTING (RADIO)

Bob Docterman
Director, Radio Operations, Ohlone College

Gerry Dove
Assistant Promotion Manager, KISQ Radio

Lisa Fox
Air Personality, KYSL Radio

Robert Sean King
Director of Internet Services, Clear Channel Broadcasting

Mark Pape
Reporter/Anchor, Metro Networks

Kirk Peffer
Music Director, KEZU Radio

Dave Shakes
President, Shakes Radio Consulting

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

Michael Stockwell
Chief Engineer, KEZU Radio/KBAY Radio

Rob Williams
Syndicated Morning Personality, KISW, Entercom Radio

Photo courtesy of Julie Polk.
BROADCASTING (TELEVISION)

Tony Bondilla  
Assistant News Director, KTVU TV

Belva Davis  
News Anchor, KRON TV

Peggy Geary  
Motion Picture Continuity Supervisor

Sam Goldman  
Sports Information Officer, San Francisco State University

Paul Hammons  
News Graphics Supervisor, Fordham University

Gary Kauf  
Director, Television Operations, Ohlone College

Drake Skillman  
AVID Editor, TV Movies

BUSINESS Supervision/Management

Dr. Helmut Buehler  
Group Marketing Manager, Sun Microsystems

Amber Hatter  
Realtor, Look Realty

Robert Lum  
Owner, Technical Training and Publication Services

Bob Parks  
Fricke-Parks Press

David Patrick  
Industry Consultant/Adjunct Faculty, Ohlone College

Evan Piercy  
Project Management, Sun Microsystems

Carl Smith  
Brokerage Firm California

Nancy Smith  
Database Commands Manager, BenefitNation, Inc.

Elisa Webb  
Industry Consultant; Adjunct Faculty, Ohlone College

DEAF STUDIES

C.E. Kitty Cecil-Hunter  
Mission Valley ROP

Jan Giovanni Hill  
Finance Department, California State University, East Bay

Robert Lum  
CEO, Lum Enterprises

Rossalle B. Noguera  
Recruiter, Kelly IT Services

David Patrick  
Computer Studies Faculty, Ohlone College

Dr. Ron Quinta  
Dean, Science, Technology, and Engineering; Ohlone College

Jenny Walsh  
Alumna, Ohlone College

Suzanne Walsh  
Executive Administrator, David Evans and Associates

Elisa Webb  
Industry Consultant/Adjunct Faculty, Ohlone College

DEAF STUDIES

Paul White  
American Red Cross (Retired)

DISABLED STUDENTS

PROGRAMS AND SERVICES

Martha Brown  
Dean, Counseling, Ohlone College

Rosa Burciga  
Special Services, Fremont Unified School District

Ann Burdett  
Director, Disabled Students Programs and Services, Ohlone College

Diane Cheney  
Learning Disabilities Specialist, Ohlone College

Mary Durski  
Transition Instructor, California School for the Blind

Jerry Egusa  
Learning Disability Specialist, Chabot College

Fred Hilde  
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

Terry Taskey  
Instructor/Counselor, Disabled Students Programs and Services, Ohlone College

Cybele Walsh  
Rehabilitation Specialist, Department of Rehabilitation

EARLY CHILDHOOD STUDIES

Neva Bandelow  
Child Development Corps Program Manager, Every Child Counts

Kristen Collier  
Student, Early Childhood Studies, Ohlone College

Janice Fonteno  
Professional Development Coordinator, Ohlone College

Jan Green  
Owner, Jan’s Greenhouse for Kids

Mitchell Ha  
Director, Ohlone Kidango Child Development Center, Ohlone College

Diane Johnson  
Director, Little Lambs Preschool

Dr. Janice Jones  
Early Childhood Studies Faculty, Ohlone College

Gerry Low-Sabado  
Past Director, Learning Tree

Kavita Malik  
Early Care and Education Teacher, Ohlone Kidango Child Development Center, Ohlone College

Michele McDowell  
Early Childhood Studies Faculty, Ohlone College

Maroof Mendez  
Director/Patient, ABC Moments Preschool

Paul Miller  
Executive Director, Kidango

Rosemarie Obeid  
Director of Resources and Referrals, Community Childcare Coordinating Council

Maria Ramirez  
Counselor, Ohlone College

Catherine Rice  
Child Care Program Director, Fremont Area YMCA

Janey Shephard  
Teacher, Mission Valley ROP

Mikelyn Stacey  
Dean, Humanities, Social Sciences, and Mathematics, Ohlone College

Deborah Stark  
Honorary Member

Beverly Taub  
Categorical Program Manager, Fremont Unified School District

Dr. James E. Wright  
Vice President, Academic Affairs/Deputy Superintendent, Ohlone College

EXTENDED OPPORTUNITY PROGRAMS AND SERVICES

Sandy Bennett  
EOPS/CARE Program Coordinator, Ohlone College

Rawnie Clements  
Alumna, Ohlone College

Dr. Janice Jones  
Early Childhood Studies Faculty, Ohlone College

2009-2010 OHLONE COLLEGE CATALOG
May Lee  
Housing Counselor, Fremont Housing Department

Marybeth McCarthy  
Project Independence Director, Tri-City Homeless Coalition

Cruz Ramos  
Tri Cities Waste Management

Anita Rees  
Program Director, LIFETIME

Susanne Shenfield  
Human Services Director, City of Fremont

Jan Vincent  
Proprietor, JVA Business Services

Mya Watts  
Attorney, Bay Area Legal Aid

---

**GRAPHIC ARTS**

Bunny Carter  
Professor, Department of Art, San José State University

David Chai  
Professor, Department of Art, San José State University

John Clapp  
Professor, Department of Art, San José State University

Tatiana Deogirikar  
Designer

Gus Fjelstrom  
Artist

Rebecca Fogg  
Computer Graphics Professional

Courtney Graner  
Professor, Department of Art, 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  
Interior Designer; Marie Antoinette Custom Home Interiors

Walt Birkedahl  
Dean, Fine Arts, Business, and Communication Studies, Ohlone College

Donald Chu  
Faculty, Ohlone College

Annette Fagundes  
Gabriella Ronegas Designs

---

**MULTIMEDIA**

Diana Bennett  
Multimedia Instructor, College of San Mateo

Justin Everett-Church  
Sr. Product Manager for Flash Player, Adobe

Diane Fenster  
Digital Photographer and Photo Illustrator

Carlos Goulart  
Designer, Advertising Art & Design

Michael Henninger  
Professor, Art Department and Multimedia Graduate Program, California State University, East Bay

Pilar Lewis  
Multimedia Faculty, Ohlone College

Cynthia Luckoski  
Graphic Arts Faculty, Ohlone College

Derek Wilson  
Assistant Professor, Multimedia Studies, College of Marin

---

**INTERPRETER PREPARATION**

Jim Brune  
Deputy Director, Deaf Counseling, Advocacy, and Referral Agency

Karen Carruthers  
Chair, ASL Department, Berkeley City College

Dr. Genie Gertz  
Dean, Deaf Studies, Ohlone College

---

**Photo courtesy of Don Jedlovec.**
**PHYSICAL THERAPIST ASSISTANT**

Rosalie Cape, P.T.A  
P.T.A/CCCE, Kaiser Permanente, Santa Clara

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P.T.A Program Director, Ohlone College

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J. Logan  
Director of Human Resources, City of Newark

Carol Morodemi, M.P.T.  
P.T.A Program ACCE, Ohlone College

Marijean Piorkowski, D.P.T.  
P.T.A Program Director/ACCE, Cerritos College

Dr. Barry Rose  
Orthopedic Surgeon, Palo Alto Medical Foundation, Fremont Center

Michael Scates, M.S., P.T.  
Lead Physical Therapist/CI, Washington Outpatient Rehabilitation

Matt Silva, P.T.A.  
P.T.A/Clinical Instructor, Vibrant Care

Trude Silva, P.T.  
Physical Therapist, Redwood Orthopedic

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

Dr. Leta Stagnaro, M.S., P.T.A.  
Associate Vice President, Newark Center for Health Sciences and Technology, Ohlone College

Kathy Utchen, P.T.A.  
P.T.A Adjunct Faculty, Ohlone College; P.T.A, John Muir

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Manager, Real Estate Broker, Look Realty

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Real Estate Appraiser, Jackson Appraisals

Manny Kang  
Real Estate Broker

Fazlur Khan  
Real Estate Broker

Bill McMillin  
Board of Trustees, Ohlone College

Jerry Prosch  
Real Estate Salesperson; Alumni, Ohlone College

Jeevan Zutshi  
Real Estate Broker

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Dean, Health Sciences and Environmental Studies, Ohlone College

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Director of Patient and Staff Education, Washington Hospital Healthcare System

Martha Giggelmam, RN  
Director of Patient Care Services, Washington Hospital Healthcare System

Kimberly Hartz-Foster  
Director of Strategic Planning, Washington Hospital Healthcare System

Jessica Jordan, MS, RN  
Vice President, Medical-Surgical Nursing, Valley Care Health Systems

Sherry Madsen, RN, BSN  
Manager, Medical-Surgical, Valley Care Health Systems

Cathy Miller, RN  
Education Coordinator, Kaiser Permanente, Hayward

Josie Nolasco  
Education Coordinator, St. Rose Hospital

Katherine Tate, MS, RN  
Director, Registered Nursing, Ohlone College

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**RESPIRATORY THERAPIST**

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Manager, Respiratory Therapy Department, Alameda County Medical Center

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

Harleen Dhami  
Alumni, Ohlone College/Washington Hospital

Steve Dring  
Manager, Respiratory Therapy, Washington Hospital

Stephen Eshelman  
Manager, Respiratory Therapy Department, Kaiser Permanente, Oakland

Jan Fraga  
Director, Respiratory Therapy Department, Kaiser Permanente, Walnut Creek

Cheryl Frydel  
Director, Respiratory Therapy Department, Kaiser Permanente, Fremont and Hayward

Robin Gordon  
Director, Cardiopulmonary Department, Eden Medical Center

Michael Henry  
Manager, Respiratory Therapy, Lucille Packard Children’s Hospital at Stanford

Lisa Hills  
Manager, Respiratory Therapy Department, Kaiser Permanente, Fremont and Hayward

Dr. Francis Johnson  
Medical Director, Pulmonary Medicine, Eden Medical Center/Respiratory Therapy Program, Ohlone College

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

Carol McNamee-Cole  
Manager, Respiratory Therapy Program, Ohlone College

Janet Novak  
Manager, Cardiopulmonary Services Department, Summit Medical Center

Niki Petersen  
Manager, Respiratory Therapy, Kaiser Permanente, Vallejo

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**Announcement of Courses**

**Chapter**

**How to Read Course Descriptions**

Every course description includes the course name (the abbreviation of the department followed by the course number, e.g. ENGL-101A) and the course title. There is also the number of units earned upon successful completion of the course as well as the means by which the units are earned, either through a lecture, laboratory, or combination lecture/laboratory experience. Course prerequisites, corequisites, and advisories are identified, as applicable. If the course is cross-referenced to an identical course in another department, then that information will be indicated and will allow students the option of determining within which department they choose to apply their credit. The Accepted for Credit tag indicates if the course will transfer to either or both the University of California (UC) and California State University (CSU) systems. The course description gives a summary view of the course content and indicates if a course may be repeated for credit and what grading policies apply to the course.

**Course Requisites**

“Prerequisite” means a condition of enrollment that a student is expected to meet in order to demonstrate current readiness for enrollment in a course or educational program.

“Corequisite” means a condition of enrollment consisting of a course that a student is expected to take simultaneously in order to enroll in another course.

“Advisory” means a condition of enrollment that a student is advised to meet before or in conjunction with enrollment in a course or educational program.

Students have the right to challenge the prerequisite or corequisite for any one of the following reasons:

1. The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite (student documentation required).

2. The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available.

3. The prerequisite or corequisite has not been established in accordance with the District’s process of establishing prerequisites and corequisites (regulations and District approved processes are available in the Office of the Vice President, Academic Affairs/Deputy Superintendent).

4. The student believes the prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawful discriminatory manner.

Written documentation to substantiate the challenge must be provided. Challenge petitions may 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 pass/no pass only
GC – Course offered with student given the option to enroll for pass/no pass or for a standard grade
GR – Course offered for letter grade only
NG – Course has no grade, no credit

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 identifiable 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)

These courses are designed for students who wish to undertake an individual study or to complete research related to a particular field. In compliance with state regulations, Special Projects courses are available for 1, 2, or 3 units. These courses are identifiable by the number 201 for 1 unit, 202 for 2 units, and 203 for 3 units. The maximum number of units which can be earned, at any time, in any combination of special projects is 7 units. A Special Projects Authorization Form must be completed and submitted to the Office of Admissions and Records on the Fremont campus in order to register for a Special Projects course.

Academic Division Information

There are eight academic divisions at Ohlone including Athletics; Counseling; Deaf Studies and Special Services; Fine Arts, Business, and Communication Studies; Health Sciences and Environmental Studies; Humanities, Social Sciences, and Mathematics; Learning Resources and Academic Technology; and Science, Technology, and Engineering. Following are the departments contained within each academic division and the contact information for each division:

Division: Athletics and Exercise Science
Departments: Athletics (ATHL), Health (HLTH), Kinesiology (KIN), Physical Education (PE)
Director: Christopher Warden
Location: Fremont campus, Room 9303
Phone number: (510) 659-6044

Division: Counseling
Department: Personal Development (PD), Work Experience Education (WEX)
Dean: Martha Brown
Executive Assistant: Susan Steffen
Location: Fremont campus, Room 7322
Phone number: (510) 659-6037

Division: Deaf Studies
Departments: American Sign Language (ASL), Deaf Preparatory Program (DEAF), Interpreter Training (INT), Learning Skills Program (LSP)
Dean: Genie Gertz
Executive Assistant: Sue Owen
Location: Fremont campus, Room 5302
Phone number: (510) 659-6269 (V/TTY)
Division: Fine Arts, Business, and Communication Studies
Departments: Air Force (AF), Art (ART), Broadcasting (BRD), Business Administration (BA), Business Supervision/Management (BSM), Communication (COMM), Graphic Arts (GA), Interior Design (ID), Interdisciplinary Studies (IS), Journalism (JOUR), Multimedia (MM), Music (MUS), Real Estate (RE), Speech (SPCH), Theatre and Dance (TD)
Dean: Walter Birkedahl
Executive Assistant: Bonnie Feltrop
Location: Fremont campus, Smith Center, Room 147
Phone number: (510) 659-6216

Division: Health Sciences and Environmental Studies
Departments: Allied Health (AH), Consumer Family Sciences (CFS), Environmental Studies (ENVS), Nursing (NUR), Physical Therapist Assistant (PTA), Respiratory Therapy (RT)
Dean: Gale Carli
Executive Assistant: Zelma Hunter
Executive Assistant: JoAnne Serran
Location: Newark campus, Room NC1324
Phone number: (510) 742-3100

Division: Humanities, Social Sciences, and Mathematics
Departments: Administration of Justice (AJ), Arabic (ARBC), Chicano Studies (CHS), Chinese (CHIN), Early Childhood Studies (ECS), Education (EDUC), English (ENGL), English as a Second Language (ESL), French (FREN), History (HIST), Japanese (JPNS), Mathematics (MATH), Philosophy (PHIL), Political Science (PS), Psychology (PSY), Sociology (SOC), Spanish (SPAN), Tagalog (TAG), Women’s Studies (WS)
Dean: Mikelyn Stacey
Executive Assistant: Sila Marques
Location: Fremont campus, Room 1141
Phone number: (510) 659-6080
Executive Assistant: Kathleen Martinez
Location: Fremont campus, Hyman Hall, Room 222
Phone number: (510) 659-6173

Division: Learning Resources and Academic Technology
Department: Library Science (LS)
Dean: Lesley Buehler
Learning Resources Specialist: Linda Dickerman
Location: Fremont campus, Room 1318
Phone number: (510) 659-6167

Division: Science, Technology, and Engineering
Departments: Anthropology (ANTH), Astronomy (ASTR), Biology (BIOL), Biotechnology (BIOT), Chemical Technology (CHMIT), Chemistry (CHEM), Computer Applications and Occupational Technology (CAOT), Computers, Networks, and Emerging Technology (CNET), Computer Science (CS), Engineering (ENGI), Engineering Technology (ETEC), Geography (GEOG), Geology (GEOL), Physical Sciences (PHS), Physics (PHYS)
Dean: Ronald Quinta
Executive Assistant: Irene Benavidez
Location: Fremont campus, Room 8203
Phone number: (510) 659-6191

Photo courtesy of Julie Polk.
STUDENT LEARNING OUTCOMES
BY DISCIPLINE/PROGRAM

As a result of having taken a set of courses in a specific discipline or program, students will acquire proscribed knowledge and skills. Disciplines and programs express these abilities as student learning outcomes – those concepts students will have learned upon successful completion of the specified set of courses. Following are the student learning outcomes specifying the educational goals of certain educational disciplines and programs, stated to address behavior students will acquire.

Administration of Justice

- Demonstrate an understanding of the workings of the criminal justice system by applying definitions, concepts, and principles to law enforcement, courts, and correctional settings.
- Apply appropriate investigative and forensic techniques to analyzing crime scenes, collecting and preserving evidence, and preparing evidence and testimony for laboratory analysis and prosecution, by applying such techniques to mock crime scenes.
- Demonstrate suitable mastery of perishable physical skills applicable to law enforcement in a safe and proficient manner.
- Demonstrate an understanding of criminal psychology by historical events such as serial analyzing of killers, victims, and psychological and sociological theories.
- Demonstrate an appreciation for the role of police within society by participating in role-playing scenarios involving police and community interactions and other means of developing interpersonal skills.

Allied Health

- Demonstrate competence in the use of standard laboratory equipment and in standard laboratory techniques.
- Describe how to safely conduct themselves in the laboratory. Students will be able to identify key features of data, analyze that data, and draw conclusions from that data.
- Compare and contrast information from diverse sources. Students will demonstrate the ability to organize information into different formats using table and graph interpretation skills. The students will demonstrate their understanding through essays that integrate facts and paraphrase concepts.
- Relate new concepts to previously learned information. Students will investigate their own learning styles and apply those to the comprehension of new facts and concepts.
- Work both in groups and individually to investigate information and present that information to fellow students to illustrate both their knowledge of the topic and their ability to review and present that information to fellow students.
- Relate information learned to the appropriate situation in a health sciences setting.

Art

- Demonstrate the skills to undertake a conceptual analysis of art.
- Demonstrate observational skills.
- Understand and apply concepts and methods of composition.
- Demonstrate knowledge of significant examples of the visual arts.
- Be prepared for ensuing courses of Art History and Studio Arts.
- Demonstrate sensitivity to the art of both the European and non-western cultures.
- Reproduce and/or render what the student sees in a variety of media.
- Design and plan finished works of art (i.e. paintings, models, drawings, computer graphics, advertisements, floor plans).
- Explain and communicate basic objectives of design and/or plan of works of art.
- Create or manufacture finished works of art based on initial designs.

Athletics

- Engage and interact in team membership.
- Assist in achieving common goals and objectives of the team.
- Value the connection between preparation for and execution of work.
- Realize the value of effective leadership skills.
- Exhibit how accountability, commitment, and sacrifice relate to the pursuit of personal and/or team goals.
- Promote physical health and wellness.
- Handle adversity and discouragement, as well as success, with dignity.
- Demonstrate an acceptance and appreciation for diversity of a team.

Biology

Transfer Program

- Demonstrate the correct operating procedures in the use of common lab equipment such as compound microscopes, spectrophotometer, pH meter, electrophoresis gel apparatus, micropipetters, and centrifuges.
- Construct, for analytical purposes, appropriate graphs from raw experimental data.
- List common laboratory safety guidelines.
- List and briefly explain the main concepts of modern evolutionary theory.

General Education Focus

- Recognize the differences between information gained through scientific inquiry versus non-scientific inquiry.
- Describe and recognize the common themes that unite all living organisms such as similarities in chemical, molecular, genetic, cellular, physiological, and morphological traits.
- Identify the evidence behind the fact of evolution and the mechanism behind the process of “descent with modification” from a common ancestor.
- Recognize the connections between different hierarchical levels of life from molecules to ecosystems.
- Apply an understanding of science and natural principles to modern life so students may critically analyze and understand information affecting their surroundings.
- Gain experience with a variety of laboratory techniques and how to properly use common scientific equipment.
Biotechnology

Biomanufacturing
- Develop a results-oriented resume highlighting transferable skills relevant to biomanufacturing positions.
- Demonstrate effective interviewing skills to obtain employment in the biotech industry.
- Understand and apply techniques to conduct a self-directed job search.
- Apply scientific method and good experimental design in scientific experiments.
- Understand and demonstrate lab safety procedures.
- Maintain a lab notebook; describe correct SOP’s, GLP’s, and other documentation required in a biotech lab.
- Demonstrate standard lab techniques such as pipetting and measurements (mass/volume).
- Demonstrate proper use of lab equipment such as pH meters, spectrophotometers, chromatographic systems, electrophoresis apparatus, compound microscope, and other equipment.

Broadcasting
- Demonstrate storytelling and reporting skills writing for news, short-form documentary, or commercial television production.
- Effectively use Windows-based and Mac-based non-linear editing software, audio software, and video manipulation programs.
- Demonstrate the vocational skills necessary to function successfully as a member of a broadcast television or film production team.
- Import and digitize video and arrange video sequences into a timeline and combine those sequences into a story, music video, or episodic television program.
- Conduct pre-production planning, develop story-boards, direct a live broadcast, direct and manage a television crew through the technical production of a program.
- Analyze and critique various lighting techniques, identify and operate a variety of studio and on-location lighting instruments, create and execute specific lighting designs.

Business Administration
- Demonstrate mastery of accounting procedures and practices.
- Evaluate the global economy and its impact on the U.S. economy.
- Demonstrate an understanding of and familiarity with the world of business and its related terminology.
- Analyze theories, principles, and policies of the United States economic system.
- Critically assess the relationship between the individual, business, and the global economy.
- Apply the methods of effective business communication.
- Describe the legal aspects of business operation.
- Consider the ethical and social responsibility issues affecting the current business environment.

Business Supervision and Management
- Access the qualifications needed for a supervisor, which will include the POEM (Plan, Organize, Execute, and Measure work to be performed) and the three P's of management (Power, Position, and Politics) and discuss the analysis through constructive critique.
- Identify the use of effective and efficient leadership styles by analyzing the leader’s POEM strategy.
- Demonstrate the roles, responsibility, and expected results of people performing the supervisory/management and/or leadership roles in an organization by identifying the key concepts.
- Assess and analyze their own capabilities using real world case scenarios to gain an understanding of what is required to gain employment in this field.
- Identify the challenges and opportunities of being a manager in today’s high tech global economy.
- Demonstrate proficiency in using latest Project Management technology tools and software.
- Write papers in field of human resource management gauging the needs of a specific audience.
- Discuss good business ethics, social responsibility, and the vital role in the establishment of trust and honesty expected of supervisory/managers and leaders today.

Chemistry
- Interpret the fundamental principles of chemistry.
- Apply scientific principles to specific circumstances or problems.
- Apply math skills to solve scientific problems and/or situations.
- Construct program graphs from raw data.
- Analyze graphical representation of scientific data.
- Demonstrate correct laboratory techniques.
- Apply safety rules in the practice of laboratory investigations.
- Demonstrate proper protocols, SOP’s of common scientific equipment such as pHmeter, voltmeter, and Spectrophotometer.
- Analyze data collected during laboratory investigations.
- Design and analyze a scientific experiment and recommend improvements.

Computer Applications and Occupational Technology
- Develop technical computer based skills needed to prepare documents, presentations, and spreadsheets using Microsoft's Office Suite Software (including Access, Word, Excel, PowerPoint, and Outlook).
- Compile written directions, lab project, and specific business documents for other co-workers.
- Use filing and schedule management skills to support management and supervisors.
- Type on a computer keyboard a minimum of 50 wpm.
- Demonstrate Internet skills including e-mail management, Web research, and document exchange.
- Use Windows Explorer filing and other skills used to support data management and storage.
Computer Science

- Think logically and critically to solve problems, explain conclusions, and evaluate evidence or critique the thinking of self and others.
- Identify, analyze, and document the requirement specifications for typical software projects and design techniques to create a solution to the problem.
- Apply software development techniques that use the correct syntax and semantics of a programming language to write the source code to implement and test/debug a specified design.
- Exhibit professional behavior and work habits, demonstrate the ability to work in teams, and effectively communicate project design.
- Demonstrate knowledge of fundamental computer science concepts in areas such as history of programming languages and computing, software design, operating systems, networks, information management systems, and professional and ethical responsibilities.
- Critically examine the basic concepts of computer organization and architecture, CPU, computer memory, I/O fundamentals, and machine language.
- Investigate functions, relations, sets, simple proof techniques, Boolean algebra, propositional logic, digital logic, elementary number theory, and the fundamentals of counting.
- Demonstrate ability to use Internet tools and network protocols to implement client/server applications.

Computers, Networks, and Emerging Technologies

- Demonstrate an appreciation of the IT career field and the need to be lifelong learners.
- Increase the ability to identify new learning requirements and to learn independently.
- Demonstrate oral and written communication skills and increase ability to be effective team members.
- Demonstrate attitudes that are beneficial to maintaining the security of a computer/network system and assisting people to use that system or network.
- Demonstrate confidence to work independently to setup and maintain computer and networking systems.
- Demonstrate techniques to anticipate and prepare for a variety of unknown situations that might impact the operation of a computer system or network.
- Demonstrate understanding of how computers communicate with each other and the methods employed to assure that the communication is reliable.
- Participate in a structured internship based in the workplace and receive real world, hands on experience.

Deaf Preparation/Deaf Education

- Develop individualized Student Education Plans outlining personal, educational, and career goals using multiple measures.
- Become advocates for themselves with regard to personal, educational, and career aspirations.
- Chart personal, educational, and career plans beyond Ohlone.

Deaf Education Certification Program

- Identify jobs within the field of deaf education that would match their personal interests and skills.
- Identify strengths and weaknesses of various communication methods, language options, and placement sites that are currently being used with deaf children in educational settings.

Intensive University Preparation Program (IUPP)

- Pass IUPP Exit Exam and demonstrate eligibility to enroll in ENGL-151B and MATH-152.
- Demonstrate successful achievement of the objectives of the IUPP as able to read, discuss, and react to college level readings; compose essays having clear organization, thesis, and support; express original ideas in English with few grammatical errors; and demonstrate independent study habits.

Community Education and Self Improvement Program

- Demonstrate growth in writing and reading skills.
- Enhance interpersonal, technological, and community awareness skills needed to become more independent and self-sustaining.

Direct Employment Program

- Participate in job search activities, actively pursue job leads, and utilize job placement services.
- Demonstrate the attitude and behavior needed to obtain gainful employment.
Early Childhood Studies

- Demonstrate understanding and application of Developmentally Appropriate Practices (DAP). Students will demonstrate competence in applying DAP in all areas of Early Childhood Programs, including: communication, interaction, guidance and discipline, planning, observing and reporting through assigned projects, group interaction, and written assignments.

- Identify and describe: normal development, basic needs, major theories, problem areas, and the impact of familial, community, and social influences on a child’s development.

- Illustrate an understanding of the biological processes and physical development of children from prenatal through age nine. Recognize and explain the physical, cognitive, social, emotional, and language development in children from prenatal through age nine.

- Observe young children, assess the learning environment, and recognize developmentally appropriate activities in early childhood educational settings. Then be able to plan, prepare, set-up, and evaluate developmentally appropriate curriculum activities for young children.

- Examine the factors affecting child development in family relations through critical analysis of articles, text, and family interview reports. In addition, examine the diversity of family groups and their traditions and rituals in the United States.

- Use a variety of observational methods and assessment tools to understand children’s development and their behavior. Then interpret and apply the information gathered from observations to develop individual curriculum plans, appropriate guidance and environments for young children. Also design a child study portfolio demonstrating an understanding of and ability to use and interpret methods of observation and assessment.

- Describe the process for developmental assessment and its role in identifying, planning, and intervening for a child with special needs and for the family. Document procedures for specialized support resources and placement options in the local area.

- Set up and compile various resource files and portfolios: 1.) of community agencies, referral systems, and specialized support services in the local area for children with special needs, 2.) a resource and assessment tool for curriculum development, 3.) identify resources and community support services for families and children in the local area, 4.) a child study portfolio, and 5.) the student's professional portfolio documenting their education and experience.

- Analyze and evaluate indicators of suspected child abuse and reporting procedures to authorities. Also demonstrate an understanding of the application of universal precautions and develop a written plan for the care of sick children.

- Distinguish between guidance and discipline versus punishment. Demonstrate an understanding of the methods and strategies useful in encouraging children, motivating self-control, developing pro-social and problem solving skills. Define, practice, and use various communication techniques, such as: active listening, I messages, clear communication, positive pictures in order to build positive relationships, set children up for success, and to set clear limits. Practice methods and strategies in experimental role-play activities in class.

Engineering

- Employ general principles, theories, concepts, and/or formulas in the solution of problems.

- Conduct an experimental procedure, use laboratory materials properly and safely, carefully note observations in a laboratory notebook, and describe the procedure clearly for others.

- Participate effectively as team members in group projects: working cooperatively with others, accepting diverse views, encouraging active participation of others, dealing productively with conflict, and taking leadership roles as the need arises to accomplish the group’s objective.

- Demonstrate the ability to use modern engineering tools necessary for engineering practice.

- Demonstrate an understanding of the engineering profession.

English

- Demonstrate writing skills at the appropriate level.

- Demonstrate critical reading skills at the appropriate level.

- Retain knowledge from course to course.

English as a Second Language

- Demonstrate the confidence and listening/speaking skills necessary to participate successfully in spontaneous aural/oral exchanges with native speakers of English in a variety of personal, professional, and/or academic settings.

- Demonstrate reading comprehension of English texts intended for developmental (or higher level) English courses.

- Respond appropriately to written or spoken English by writing paragraphs or short essays that communicate ideas clearly.

Foreign Languages

- Demonstrate progressive oral competence of the language as advance through the course levels.

- Decipher progressively more difficult texts as advance through the course levels.

- Become more competent in writing ability through the progressive course levels, in conjunction with the course content of each class.

- Demonstrate rudimentary to more advanced level of cultural and historical understanding of the societies associated with the target language as advance through the course levels.

Photo courtesy of Julie Polk.
Geography and GIS
- Investigate their physical environment and explain how various physical forces shape the environments in which they live.
- Demonstrate and assess the component elements of their natural environment and the interrelationships of these environments which are crucial to the continuance of all life on earth.
- Demonstrate an understanding of the background, the sequence, and the effects of the origin and spread of people as users and change agents of the earth, with particular reference to how different cultures have used and interacted with the natural environment.
- Discuss and describe the major concepts in human geography including place, space, scale, landscape, etc.
- Explain how the successive cultural changes people have made directly affect the present crucial balance between human population and the delicately balanced ecosystems which make possible the continuance of life on earth.
- Demonstrate and explain important characteristics of the major world regions and discuss and compare the major issues confronting those regions.
- Assess how all inhabitants of earth are interrelated with the lives of people in other places, thereby creating a greater appreciation for the places and landscapes encountered in everyday life.
- Distinguish the characteristics and key principles of geography, specifically the subdivision of cartography.
- Develop an understanding of uses, organization, and analysis of geographical data.
- Practice and develop skills in fundamental operations of geographical information systems.

Geology
- Demonstrate scientific literacy by defining and explaining the major steps in the scientific method of investigation, specifically the difference between empirical data, interpretation, testable hypothesis, theory, paradigm, speculation, and pseudo-science.
- Apply general math skills such as unit conversion, ratios, and percentages to solving simple rate problems; evaluate data, produce, and interpret tables and graphs; apply the metric system of measurement.
- Identify and classify the common earth materials, such as most common minerals, rocks, and fossils in the lab and in the field.
- List, explain, and evaluate global and local (county-wide) geological hazards such as earthquakes, volcanoes, landslides, and seismic sea waves.
- List and categorize common natural resources and explain their origin, spatial distribution, appropriate exploration methods, and the resulting products, wastes, and contaminants.

Graphic Arts/Computer Graphics
- Demonstrate a working knowledge of letter form design, type specification, copy fitting, and thumbnails and mechanicals.
- Demonstrate mastery of computer graphics programs, scanners, tablets, digital cameras, and color printers.
- Demonstrate an awareness of elements of design, design principles, gestalt theory.
- Apply the methods of effective visual communication.
- Demonstrate problem solving skills at an appropriate level.

History/Political Science
- Demonstrate an appreciation for the importance of historical and social science scholarship by gaining a comprehension of both continuity and change over time, positioning citizens and their country, especially its institutions, within the larger historical narrative.
- Demonstrate an understanding of the specific strengths, limitations, and biases of historical and social science scholarship by:
  - describing what historians and political scientists do through a recognition of the kinds of sources that are used and the types of questions that are asked;
  - identifying the difference between primary and secondary sources;
  - critically thinking about course content to formulate interpretations.
- Develop effective communications skills by:
  - reading secondary and primary source material;
  - discussing course content with the instructor and among classmates;
  - writing basic essay arguments using historical and social scientific evidence.

Interior Design
- Plan a space and present that plan visually so that it can be communicated to the client.
- Demonstrate knowledge about the materials and products that will be used to create and furnish the space and how texture, color, lighting, and other factors combine and interact to make a space.
- Demonstrate understanding of the structural requirements of the plans, the health and safety issues, building codes, and many other technical aspects.
- Be comfortable meeting and dealing with many kinds of people.
- Communicate clearly and effectively, as well as be attentive listeners.
- Be both good team leaders and good team players.
- Be willing to negotiate and mediate when necessary to solve problems.
- Demonstrate excellent time and project management abilities and work on more than one project at a time under demanding deadlines.
- Demonstrate the ability to conduct business planning and marketing ideas to clients, create informative and persuasive proposals and presentations, and maintain good client relationships.

Interpreter Preparation Program
- Display the ability to create and maintain professional relationships and appropriate cultural sensitivities with various stakeholders including members of the deaf community, professional interpreters, and interpreter agencies through effective interpersonal and cross-cultural communication skills.
- Demonstrate critical thinking skills by assessing potential demands of various interpreting situations and construct appropriate responses to mitigate those demands, and by applying and defending appropriate decision-making skills when ethical dilemmas arise.
- Perform entry-level Sign Language Interpreting skills in post-secondary educational and/or community settings.
Journalism
- Demonstrate a keen judgment of what makes a news story and how to go about gathering information.
- Demonstrate knowledge of the history, operation, and culture of different forms of mass media, including newspapers, magazines, radio, television, film, and online communication.
- Demonstrate an understanding of communication theory.
- Demonstrate appropriate writing and editing skills.
- Demonstrate the ability to work together, while developing pride in taking responsibility and working independently.
- Demonstrate computer and camera skills needed to be competitive in the mass media field.

Mathematics
- Demonstrate an improved attitude towards math.
- Exhibit problem solving skills at an appropriate level.
- Retain information from course to course.

Multimedia
- Demonstrate proficiency using multimedia software.
- Illustrate concepts of design.
- Demonstrate the ability to design projects that communicate specific ideas.
- Exhibit professional behavior and work ethics.

Music
- Demonstrate fluency in the language of music, be it spoken, written, played, or heard.
- Demonstrate a cultural, historical, and analytical perspective on the study of music.
- Demonstrate artistic growth and personal enrichment through the performance of music.
- Assemble the vocational skills necessary for a career in music.

Nursing
- Qualify for state licensure as a registered nurse by achieving a passing score on the NCLEX-RN.
- Value responsibility for professional development and practice within the ethical and legal framework of nursing.
- Synthesize principles of the nursing process and critical thinking to assist individuals, families, and communities to achieve positive adaptation to change in health or a peaceful death.
- Synthesize principles of communication to effectively relate with individuals, families, groups, and/or colleagues of diverse socio-cultural backgrounds in various health-care settings.
- Synthesize principles of holistic nursing practice when providing nursing care for clients at various stages in their life span.
- Empower individuals, families, and the community to develop positive health behaviors through health promotion and teaching.
- Manage nursing care for individuals, families, and/or communities, in collaboration with the multidisciplinary team.
- Value a commitment to caring.
- Integrate concepts of nursing practice, across the health care continuum, to provide cost effective care over time.

Philosophy
- Define key terms of the philosophical vocabulary relevant to the course.
- Distinguish different areas of philosophy and philosophical methodology.
- Understand some of the diverse assumptions and values that shape our experiences and attitudes.
- Read at a comprehension level that is appropriate for a college student.
- Write an argumentative essay.
- Think critically assessing real world issues and the various perspectives on them.
- Evaluate good and bad arguments.
- Understand and communicate abstract ideas.

Physical Education and Wellness
- Physical Education
  - Demonstrate fundamental skills incorporating the rules and strategies of the activity.
- Wellness
  - Formulate a personal wellness plan incorporating the basic principles of a healthful lifestyle.

Physical Science/Physics
- Demonstrate a comprehension of physical and environmental reality by understanding how fundamental physical principles underlie the huge variety of natural phenomena and their interconnectedness.
- Demonstrate a comprehension of biological reality by understanding how physical principles are at work in living organisms.
- Demonstrate a comprehension of technology by understanding how things work on a fundamental level.
- Build critical thinking and quantitative skills by gaining insight into the thought processes of physical approximation and physical modeling, by practicing the appropriate application of mathematics to the description of physical reality, and by searching for a physical interpretation of mathematical results.
- Demonstrate basic experimental skills by the practice of setting up and conducting an experiment with due regards to minimizing measurement error and by the thoughtful discussion and interpretation of data.
- Demonstrate basic communication skills by working in groups on a laboratory experiment.
- Retain information from course to course by aiming at proficiency in the correct use of all the fundamental laws and equations to solve integrated problems.

Physical Therapist Assistant
- Practice in a variety of settings that serve diverse patient populations.
- Practice within the laws and regulations of California and the ethical tenets of the American Physical Therapy Association.
- Apply evidence based knowledge, skills, and demeanor that engender comprehensive assistance to the patient and the supervising physical therapist so that treatment goals may be reached effectively and expeditiously.
- Self-evaluate learning needs to advance in the profession and improve skills for providing patient care.
- Effectively communicate with patients, colleagues, and other members of the health care team using oral, written, and non-verbal communication skills.
Psychology

- Demonstrate understanding and appreciation of cultural diversity through knowledge of behavioral principles from a cross-cultural perspective.
- Demonstrate critical thinking skills necessary to critically assess real world issues and the various perspectives on them.
- Evaluate scientific studies with an understanding of what constitutes a valid research method and publication source.
- Demonstrate effective communication skills by reading primary and secondary source material, discussing course content, and writing one or more papers.
- Demonstrate understanding of the diverse assumptions and values that shape our experiences and/or attitudes of the world.
- Articulate the major psychological theories.

Real Estate

- Demonstrate five skills/tasks that are performed by a real estate professional.
- Demonstrate five code of ethics conducts by which a real estate professional must abide.
- Demonstrate proficiency in the use of computer hardware and software used in the real estate industry.
- Demonstrate proficiency in the day-to-day business of real estate including how to do listings, deposit receipts, open escrows, and securing financing.
- Demonstrate proficiency in the basic principles of California real estate law.
- Analyze real estate financing.
- Analyze the real estate appraisal process.
- Demonstrate proficiency in the basic principles of real estate property management.

Respiratory Therapist

- Demonstrate mastery of cognitive learning in respiratory care by successfully passing the licensure examination accepted by the California State Respiratory Care Board (National Board for Respiratory Care Entry Level Examination) and qualify for licensure as a California Respiratory Care Practitioner within a year of graduation.
- Demonstrate mastery of cognitive learning in respiratory care by successfully passing the National Board for Respiratory Care Advanced Practitioner Written Registry Examination with scores that are equal to or that exceed the national average.
- Demonstrate mastery of cognitive learning in respiratory care by successfully passing the National Board for Respiratory Care Advanced Practitioner Clinical Simulation Examination with “Information Gathering” and “Decision Making” scores that are equal to or that exceed the national average.
- Demonstrate mastery of psychomotor learning in respiratory care as evidenced by successful completion of comprehensive laboratory practical examinations and demonstration of safe and knowledgeable clinical practice in the local community.
- Demonstrate mastery of psychomotor learning in respiratory care as evidenced by positive employer feedback on evaluation instruments.
- Demonstrate mastery of psychomotor learning in respiratory care as evidenced by positive feedback from program graduates themselves at least one year post graduation.
- Demonstrate mastery of the affective learning domain as evidenced by appropriate display of professional behaviors while engaging in clinical patient care settings.

- Demonstrate mastery of the affective learning domain as evidenced by positive ratings of professional behaviors on national evaluation instruments by local employers and advisory board members.
- Demonstrate the cognitive, psychomotor, and affective skills necessary to assist the physician in the diagnosis, treatment, and management of patients with cardiopulmonary diseases and disorders.
- Demonstrate appropriate critical thinking skills, time management skills, interpersonal communication skills, and technical skills necessary to provide competent respiratory care in multidisciplinary care settings.
- Commit to promoting appreciation for, communication between, and understanding among people with different beliefs and backgrounds and demonstrate sensitivity to the professional needs of all racial and ethnic groups.
- Demonstrate respect for and protection of the legal and personal rights of the patients they treat and promote disease prevention and wellness in local work settings and the community at large.

Sociology

- Demonstrate and understand a variety of explanations accounting for human behavior (in evolutionary and/or contemporary contexts) and to account for differences in terms of the interplay among society, culture, and biology.
- Demonstrate competence in defining, critically assessing, and using sociological concepts.
- Demonstrate familiarity with theoretical perspectives and historical developments in the discipline.
- Identify and employ various research designs and their appropriate application to the study of social life.
- Demonstrate an understanding of cross-cultural differences and an understanding of the importance of cultural context.

Speech/Forensics

- Communicate with diverse audiences in multiple contexts to meet the goals of the intended communication.
- Describe and analyze the symbolic nature of communication and how it creates individual, group, and cultural reality.
- Identify, evaluate, and utilize evidence to support claims used in presentations and arguments.
- Demonstrate through performance and analysis the importance of both verbal and nonverbal communication.

Theatre and Dance

- Demonstrate clear, visionary, and co-operative communication in work ethics, academic relationships, educational goals, and public performance.
- Demonstrate problem solving skills through self-motivated and co-operative assignments.
- Demonstrate responsibility and leadership skills in meeting deadlines, working independently, and commitment to others.
**ADMINISTRATION OF JUSTICE**

Division: Humanities, Social Sciences, and Mathematics

**AJ-101 Administration of Justice**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: Eligible for ENGL-151B and ENGL-163
- Accepted For Credit: CSU & UC

This course covers the history and philosophy of administration of justice in America as well as recapitulation of the system identifying the various sub-systems and their relationships. Theories of crime, punishment, ethics, education and training for professionalism in the system are explored. (GR)

**AJ-102 Criminal Law**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: Eligible for ENGL-151B and ENGL-163
- Accepted For Credit: CSU & 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)

**AJ-104 Criminal Evidence**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: Eligible for ENGL-151B and ENGL-163
- Accepted For Credit: CSU

This course covers the legal aspects of evidence. The origin, development, philosophy, and constitutional basis of evidence, along with constitutional and procedural considerations affecting arrest, search and seizure, kinds and degrees of evidence, and rules governing admissibility are studied. Judicial decisions interpreting individual rights and case studies are used to interpret the material. (GC)

**AJ-106 Criminal Procedure**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: Eligible for ENGL-151B and ENGL-163
- Accepted For Credit: CSU

This course covers the principles and procedures of the justice system. It is an in-depth study of the role and responsibilities of each segment within the Administration of Justice system – law enforcement, judicial, and corrections. (GC)

**AJ-107 Criminal Investigation**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: Eligible for ENGL-151B
- Accepted For Credit: CSU

This course covers the nature of investigation, crime scene search and recording, interviews and interrogation, sources of information, case preparation, and investigative techniques in specific crimes. (GC)

**AJ-108 Introduction to Forensic Anthropology**
- 54.00 hrs lecture
- Units: 3.00
- Cross-referenced Course: ANTH-108
- Advisory: ENGL-151B and ENGL-163
- Accepted For Credit: CSU

This course introduces the field of forensic anthropology through a study of the history and methods of forensic anthropology and the role it plays in the medico-legal system. Topics include the human skeletal system, forensic archaeology, recovery and techniques for analyzing human skeletal remains. (GC)

**AJ-115 Cyber Crime**
- 54.00 hrs lecture, 18.00 hrs lab
- Units: 3.00
- Advisory: ENGL-151B, ENGL-163
- Accepted For Credit: CSU

This course will give students background in the history and terminology of computer crimes. The investigation of computer crimes and the forensic processing of seized computer data while safeguarding the constitutional rights of individuals will be examined. (GR)

**AJ-116 Criminal Forensics**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: Eligible for ENGL-151B and ENGL-163
- Accepted For Credit: CSU

This course covers training of crime laboratory technicians in photography, scientific analysis, identification and comparison of physical evidence. Emphasis is placed on techniques and tests involved in cases of alcohol and drug intoxication and identification, blood types, fingerprints, ballistics, explosives, ultraviolet techniques, tool marks, and questioned documents. (GC)

**AJ-117 Police and Society**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: Eligible for ENGL-151B and ENGL-163
- Accepted For Credit: CSU & UC

This course involves an in-depth exploration of roles of AJ practitioners and their agencies. Through interaction and study, Administration of Justice 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**
- 54.00 hrs lecture
- Units: 3.00
- Accepted For Credit: CSU

This course studies human behavior and the reasons and motivations why people commit crimes. It will also examine the nature and extent of crimes as well as causes and prevention of criminality. (GR)

**AJ-119 Murder in America**
- 54.00 hrs lecture
- Units: 3.00
- Cross-referenced Course: PSY-104
- Advisory: Eligible for ENGL-101A
- Accepted For Credit: CSU

This course surveys the psychological and criminological aspects of murder in America, including serial killers, mass murders, and terrorism. (GR)
AJ-120  Report Writing for Law Enforcement and the Administration of Justice
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This course will provide pre-service students with an introduction to the field of report writing for law enforcement and the Administration of Justice system. Repeatable = 2 times (GC)

AJ-121  Constitutional Law and the United States
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: PS-106
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This course examines the development of judicial review and the evolving role of the U.S. Supreme Court through analysis of landmark decisions of the Court. In particular, this course will focus on a theoretical discussion exploring the plurality of methods of constitutional interpretation used by justices in the past and present. (GC)

AJ-123  Terrorism
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151A
Accepted For Credit: CSU
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 new 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-131  Juvenile Justice
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course covers causes and forms of juvenile delinquency, the handling of juvenile offenders and victims, the prevention and repression of juvenile delinquency, the diagnosis and referral of juvenile offenders, the organization of community resources, and juvenile law and juvenile court procedures. (GR)

AJ-132  Civil Law
36.00 hrs lecture
Units: 2.00
This course covers the essentials of non-criminal law as it relates to contracts, personal and property rights, torts, marriage and family relations, and the civil action. This course also covers the legal basis for enforcement of emergency protective restraining orders. (GC)

AJ-135  Drug Enforcement
36.00 hrs lecture
Units: 2.00
This course covers the identification of narcotic and dangerous drugs, the users of drugs and their supply, the law as an agency of drug control, investigation and processing of drug violations, and social solutions to the drug problems. (GC)

AJ-140  POST PC 832 Laws of Arrest
40.00 hrs lecture
Units: 2.00
This course is POST certified as 40 hours PC 832 Laws of Arrest for code enforcement vocations. This course covers professionalism for code 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 enforce code violations by issuing citations, if necessary. Repeatable = 2 times (CR)

AJ-141  POST PC 832 Basic Firearms
10.00 hrs lecture, 172.00 hrs lab
Units: 1.00
Prerequisite: Limitation on Enrollment: Students must pass a background fingerprint check through the California Department of Justice at their own expense. The clearance letter must be provided to the Coordinator before entrance to the firing range. This requirement is California State Law.
This course is the basic POST (Police Officer Standards and Training) certified 24-hour firearms training with qualification certificate upon completion. Successful completion of this course will allow the student to enter any enforcement type vocation, for instance, code inspectors, such as park rangers, building inspectors, animal control officers, community service officers, probation officers, security officers, or firefighters anywhere in the State of California. Repeatable = 3 times. (CR)

AJ-144  Leadership Skills Development
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163
Accepted For Credit: CSU
This course is designed to teach skills needed to create future leaders and supervisors for the public safety sector. Emphasis is not to teach students about supervision, but about leadership, and the differences between the two. (GC)

AJ-195A1  Work Experience Education – Vocational
75.00 hrs lab
Units: 1.00
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
150.00 hrs lab
Units: 2.00
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
225.00 hrs lab
Units: 3.00
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
300.00 hrs lab
Units: 4.00
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 Communication Studies

AF-101A  Foundations of the U.S. Air Force
22.50 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Today's Air Force officer and the Air Force as a whole. (GR)
ALLIED HEALTH
Division: Health Sciences and Environmental Studies

AH-110 Medical Terminology
72.00 hrs lecture
Units: 4.00
Advisory: Eligible for ESL-148; ENGL-162; SPCH/ESL-150 or SPCH/ESL-151
Accepted For Credit: CSU
This course is an introduction to medication terminology as used in the health professions. It provides opportunities for practical application of medical terminology and further development of skill in analyzing components of medical terms and building a medical vocabulary applicable to specialties of medicine. Course content includes anatomical and physiological terminology, basic structure, prefixes, suffixes; combining forms; abbreviations, clinical procedures, laboratory and diagnostic tests related to each body system. (GR)

AH-114 Laboratory and Diagnostic Tests
18.00 hrs lecture
Units: 1.00
This course is designed for health science students and RN practitioners. Students will learn the purpose of various lab and diagnostic tests. Using clinical case studies, test results will be presented and analyzed. Repeatable = 1 time (CR)

AH-117A Basic Phlebotomy Training
36.00 hrs lecture
Units: 2.00
Prerequisite: AH-110 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 Accomplishment and eligibility to sit for the state certification exam as a Phlebotomy Technician I. This is a 36-hour course normally offered in an abbreviated format over 3 to 4 weeks. Repeatable = 1 time (CR)

AH-117B Phlebotomy Skills Lab
27.00 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 Accomplishment. In this course students demonstrate what has been learned in the previous phlebotomy course. In a laboratory setting, under the supervision of the phlebotomist 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. Repeatable = 1 time (GR)

AH-117C Advanced Phlebotomy Training
27.00 hrs lecture
Units: 1.50
Prerequisite: AH-117A with grade of C or better; AH-117B; all must have been taken within one year
This is the third course in the four course series that meets the California content standards for eligibility to sit for the Phlebotomy Technician I certification exam. All four courses are required to earn the Ohlone College Phlebotomy Certificate of Accomplishment. This course builds upon the content and principles taught in AH-117A, Basic Phlebotomy Training. It addresses each standard as outlined in the California standards and includes preparation for state certification. This is a 27 hour course normally offered over a 3 week period. Repeatable = 1 time (GR)

AH-117D Phlebotomy Externship
108.00 hrs lab
Units: 2.00
Prerequisite: AH-117C with grade of C or better; must have been taken within one year
This is the fourth of four courses required to earn the Phlebotomy Certificate of Accomplishment. 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 health care. 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. Repeatable = 1 time (GR)

AH-118 Advanced Phlebotomy for Practitioners
27.00 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. Repeatable = 1 time (GR)

AH-120 Electrocardiography and Vital Signs
27.00 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-121  EKG Interpretation
18.00 hrs lecture
Units: 1.00
Students are introduced to waveform identification, measurements, determination of rhythms, determination of heart rates, and various EKG rhythms and dysrhythmics. This course will also review cardiac anatomy and physiology in relation to various rhythms. Students will practice interpreting EKG rhythms. A brief review of anatomy and physiology is included. Repeatable = 1 time (CR)

AH-130  Acupressure Connection I
18.00 hrs lecture
Units: 1.00
Cross-referenced Course: HLTH-130
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. Repeatable = 2 times (CR)

AH-151  Applied Clinical Pharmacology
36.00 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
18.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology and skill enhancement in a subject. It may include consultation with skills lab coordinator and supervised tutoring and/or student tutors. Repeatable = 3 times (NG)

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AMERICAN SIGN LANGUAGE

Division: Deaf Studies

ASL-101A  Principles of American Sign Language I
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Accepted For Credit: CSU & UC
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 and 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
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-101A
Accepted For Credit: CSU & 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. (GR)

ASL-102A  Principles of American Sign Language II
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-101A or B with a grade of C or better or two years of high school ASL
Accepted For Credit: CSU & 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 and Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)

ASL-102B  Principles of American Sign Language II
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-102A or equivalent
Accepted For Credit: CSU & 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. (GR)

ASL-103A  Principles of American Sign Language III
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-102A or B with grade of C or better, or equivalent
Accepted For Credit: CSU & 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 and Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)

ASL-103B  Principles of American Sign Language III
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-103A or equivalent
Accepted For Credit: CSU & 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)

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Did you know???
24.9% of all District high school graduates enroll in Ohlone College each year.
ASL-104A  Principles of American Sign Language IV
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-103A or B with grade of C or better, or equivalent course.
Accepted For Credit: CSU & UC
This course covers the fundamental principles of Level IV of American Sign Language and continues information about the Deaf community and Deaf culture. This course is required for students majoring in American Sign Language and Deaf Studies and students wishing to enter the Interpreter Preparation Program. It is for students who have completed ASL-103A or ASL-103B. Students are expected to attend outside events at their own expense. (GR)

ASL-104B  Principles of American Sign Language IV
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-104A or equivalent
Accepted For Credit: CSU & UC
This course is an enhanced and expanded Level IV 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 finished ASL-104A and desire further study and review. Students are expected to attend outside events at their own expense. (GR)

ASL-140  Deaf Education
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course has been designed to provide the student with a general orientation to Deaf/deaf education. The course provides an overview of the historical, philosophical, and social aspects of Deaf education. The course analyzes the impact of Deaf education on hearing families. In addition, it provides an orientation to problems, issues, research, legislation and current trends in the field of education of the Deaf. Repeatable = 1 time (GR)

ASL-142  Deaf Culture
54.00 hrs lecture
Units: 3.00
Prerequisite: Completion of, or concurrent enrollment in, ASL-101A or B or equivalent
Advisory: ENGL-151B
Accepted For Credit: CSU & UC
This course introduces American Deaf culture with historical and cultural overview of the American Deaf community and its language, American Sign Language – ASL. Fundamental sociological and anthropological theories will be discussed. Students will be given an opportunity to study and understand minority group dynamics, attitudes, and behavior characteristics of the oppressed and oppressor people and the liberation movements. Analysis of the relationship ASL to the history of American Deaf community will be conducted. (GR)

ASL-145  Deaf History
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-101A or ASL-101B with grade of C or better, or equivalent
Accepted For Credit: CSU & UC
This is an in-depth study of noted Deaf persons, Deaf contributions to education and job markets, Deaf heritage, international Deaf history, history of California School of the Deaf-Fremont, and history of Bay Area Deaf organizations. (GR)

ASL-150  Linguistics of ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-103A or ASL-103B; ENGL-151B
Accepted For Credit: CSU & UC
This course is an in-depth study of the language of American Deaf people including grammar, morphology, phonology, semantics, and discourse of ASL. This course is taught in ASL only. (GR)

ASL-152  Advanced Fingerspelling
18.00 hrs lecture
Units: 1.00
Prerequisite: ASL-102A or B or with grade of C or better, or equivalent
This course provides concentrated instruction in the receptive and expressive practice of advanced fingerspelling at increasing levels of complexity. It is recommended for advanced students majoring in American Sign Language and Deaf Studies or who are in the Interpreter Preparation Program. Repeatable = 3 times (GC)

ASL-154  Advanced American Sign Language Vocabulary
36.00 hrs lecture
Units: 2.00
Prerequisite: ASL-102A or ASL-102B with a grade of C or better, or equivalent
This course is designed to provide students with receptive and expressive knowledge of over 5,000 signs and commonly used phrases. Regional variations of signs will be studied. Conceptual accuracy is emphasized. Students will be able to correctly sign English into ASL and be able to translate ASL into English. This course is recommended for advanced students majoring in American Sign Language, Deaf Studies Program, and/or Interpreter Preparation. Repeatable = 3 times (GC)

ASL-155  ASL Literature (Folklore)
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-103A or B with grade of C or better, or equivalent
This course is an introduction to the discussion and analysis of ASL literature. Two ASL stories will be studied in depth and analyzed from a variety of perspectives. The class is taught in ASL only. (GR)

ASL-156  Advanced Reception of ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-102A or B or with grade of C or better, or equivalent
This course is designed to strengthen the receptive skills of students interested in ASL by analyzing stories, jokes, and experiences of a large variety of Deaf signers. This course is recommended for advanced students in the American Sign Language and Deaf Studies Program or in the Interpreter Preparation programs. Repeatable = 3 times (GC)

ASL-157  ASL Storytelling
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-103B
This course includes various levels and situations from simple to complex ASL stories. Expressive storytelling will incorporate ASL principles, sign order, facial expressions, body expressions, and pantomime. Receptive storytelling will involve critiquing and analyzing given stories. The class is taught in ASL only. (GR)
**ASL-158**  \hspace{1em} *Classifiers in ASL*

54.00 hrs lecture  
Units: 3.00  
Prerequisite: ASL-102A or ASL-102B with a grade of C or better, or equivalent

In this course, students will study the classifier system of ASL. This course is taught in ASL only. Repeatable = 3 times (GC)

**ASL-160**  \hspace{1em} *American Sign Language Field Work*

54.00 hrs lab  
Units: 1.00  
Prerequisite: ASL-102A or ASL-102B with grade of C or better, or equivalent

This course offers direct experience signing in formal and/or informal conversational settings or projects involving knowledge of ASL and deafness. Repeatable = 3 times (GR)

**ASL-161**  \hspace{1em} *American Sign Language Field Work*

108.00 hrs lab  
Units: 2.00  
Prerequisite: ASL-101A

This course offers direct experience signing in formal and/or informal conversational settings or projects involving knowledge of ASL and deafness. Repeatable = 3 times (GR)

**ASL-181A**  \hspace{1em} *Conversational ASL I*

54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU

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 = 1 time (GC)

**ASL-181B**  \hspace{1em} *Conversational ASL II*

54.00 hrs lecture  
Units: 3.00  
Prerequisite: ASL-181A or equivalent  
Accepted For Credit: CSU

This course is a continuation of the study of ASL as used in a conversational mode. It is designed to provide intermediate conversational skill in the use of ASL. Students are expected to attend outside events at their own expense. Repeatable = 1 time (GC)

**ASL-183**  \hspace{1em} *ASL Skill Building*

54.00 hrs lab  
Units: 1.00  
Prerequisite: ASL-101A

This is a course for students wishing to become more proficient in using ASL and to further develop their vocabulary, ASL grammar, and fingerspelling skills. This course is taught in ASL only. Repeatable = 3 times (GC)

**ASL-190A**  \hspace{1em} *Workshop in Basic ASL*

18.00 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**  \hspace{1em} *Workshop in Basic ASL*

36.00 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**  \hspace{1em} *Workshop in Basic ASL*

54.00 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**  \hspace{1em} *Workshops in Deaf Studies*

18.00 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-190A-C (CR)

**ASL-191B**  \hspace{1em} *Workshops in Deaf Studies*

36.00 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-190A-C (CR)

**ASL-191C**  \hspace{1em} *Workshops in Deaf Studies*

54.00 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-190A-C (CR)

**ASL-365**  \hspace{1em} *Supervised Tutoring*

90.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral

This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

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**ANTHROPOLOGY**

Division: Science, Technology, and Engineering

**ANTH-101**  \hspace{1em} *Physical Anthropology*

54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC

This course is a study of 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)
ANTH-102 **Cultural Anthropology**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & 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)

ANTH-103 **Introduction to Archaeology and Prehistory**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course introduces the subject of archaeology through the study of concepts, theories, and methods employed by archaeologists to reconstruct past life ways. Topics include the nature of archaeological research; field methods; data acquisition, analysis, and interpretation; cultural resource management; and an examination of cultural adaptations and change. (GC)

ANTH-104 **Survey of North American Indian Cultures**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course will focus on the prehistoric and historic distribution of Native American populations and their respective cultures. Topics to be covered include prehistoric and ethnographic record of North American Indian cultures. This will include social organization, linguistics, religion, post contact history, and contemporary issues of Native Americans. (GC)

ANTH-105 **Field Archaeology**
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course deals with the methods of scientific excavation implementing the techniques of a field archeologist. Emphasis will be on the scientific method as it relates to excavation, classifying, cataloging, and preservation of past human cultures under supervised field and laboratory conditions. Repeatable = 3 times (GC)

ANTH-106 **Magic, Witchcraft, and Religion**
54.00 hrs lecture
Units: 3.00
Advisory: ANTH-102 and eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course involves the study of belief systems of cultures around the world, examining religion and spirituality from an anthropological perspective. Students will analyze the functions of religious beliefs and the varied expressions of religion through ritual behaviors, use of magic, cures, hallucinogenic drugs and the importance of the mind-body connection. (GC)

ANTH-108 **Introduction to Forensic Anthropology**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: AJ-108
Advisory: ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course introduces the field of forensic anthropology through a study of the history and methods of forensic anthropology and the role it plays in the medico-legal system. Topics include the human skeletal system, forensic archaeology, recovery and techniques for analyzing human skeletal remains. (GC)

ANTH-365 **Supervised Tutoring**
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or Counselor Referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis with consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

**ARABIC**
Division: Humanities, Social Sciences, and Mathematics

ARBC-101A **Elementary Arabic**
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Accepted For Credit: CSU & UC
This course is an introduction to the speaking, reading and writing of Arabic including fundamentals of grammar and Arabic culture. (GR)

ARBC-101B **Elementary Arabic**
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ARBC-101A or two years of high school Arabic
Accepted For Credit: CSU & UC
This course is a continuation to the speaking, reading and writing of Arabic and includes fundamentals of grammar and Arabic culture. (GR)

**ART**
Division: Fine Arts, Business, and Communication Studies

ART-100 **Survey of the Arts**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-100, MUS-100, TD-100
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
In this course, Theatre, Art, and Music are explored through discussion, historical review, and contemporary issues. The purpose of this course is to increase students’ understanding and enjoyment of the arts. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

ART-101 **Art: An Introduction**
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course is a survey of the visual arts: painting, sculpture, architecture, and film. The student will be introduced to the various functions of art in our society. The desired outcome is a more critical observer. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)
ART-103A  Survey of World Art History – Prehistoric Through 1300 C.E.
72.00 hrs lecture
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course consists of visual art history primarily from prehistory through 14th century: Mesopotamian, Egyptian, Greek, Roman, Early Christian, Islamic, African, Pre-Columbian, Asian, and the art of the Americas. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

ART-103B  Survey of World Art History – 14th Century Through 20th Century
72.00 hrs lecture
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

ART-104A  2D Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This lecture/studio class will introduce the beginning student to the principles of three-dimensional form. (CAN ART 16) Repeatable = 3 times (GC)

ART-104B  3D Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: ART-104A
Accepted For Credit: CSU & 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 imagery. Studio work will include collage, painting, printmaking, and drawing. Repeatable = 3 times (GC)

ART-104C  Color
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & 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  Glass Art and Design
36.00 hrs lecture, 126.00 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, fusion, slumping, sandblasting, lamination, fabrication techniques, and contemporary glass survey lectures. Repeatable = 3 times (GC)

ART-105B  Advanced Glass Fabrication
36.00 hrs lecture, 126.00 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
36.00 hrs lecture, 126.00 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-106A  Descriptive Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & 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)

ART-106B  Intermediate Descriptive Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-106A
Accepted For Credit: CSU & 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-107A  Life Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-107A
Accepted For Credit: CSU & UC
This course involves drawing the human figure from both an anatomical and intuitively observational method. Media used include charcoal, graphite, ink, watercolor, and oil wash. Repeatable = 3 times (GC)

ART-107B  Life Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-107A
Accepted For Credit: CSU & UC
This course is a continuation of the work and methodology of ART-107A, but with an emphasis on expressive interpretation in drawing the human figure and the use of color. Repeatable = 3 times (GC)

ART-108  Perspective Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: ART-106A
Accepted For Credit: CSU & 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)
36.00 hrs lecture, 126.00 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  
36.00 hrs lecture, 126.00 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-109B  
Prerequisite: ART-109A or GA-109A  
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)

ART-110A  Advanced Graphic Design I  
36.00 hrs lecture, 126.00 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-110A  
Prerequisite: ART-109B or GA-109B  
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  
36.00 hrs lecture, 126.00 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-110B  
Prerequisite: ART-110A or GA-110A  
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  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Advisory: ART-104A or ART-106A  
Accepted For Credit: CSU  
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)

ART-111B  Painting  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-111A  
Accepted For Credit: CSU & UC  
This class continues the approaches studied in Painting 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  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Advisory: ART-106A  
Accepted For Credit: CSU & 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  
36.00 hrs lecture, 72.00 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  
36.00 hrs lecture, 126.00 hrs lab  
Units: 3.00  
Advisory: ART-104A or ART-106A  
Accepted For Credit: CSU & 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)

ART-116B  Advanced Sculpture  
36.00 hrs lecture, 126.00 hrs lab  
Units: 3.00  
Prerequisite: ART-116A  
Accepted For Credit: CSU & 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  
36.00 hrs lecture, 126.00 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)  
18.00 hrs lecture, 54.00 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)  
18.00 hrs lecture, 54.00 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  
54.00 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-119C Advanced 3D Studio Lab
54.00 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-120A Ceramic Studio Development and Maintenance I
54.00 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
54.00 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
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This course is an introduction to the fundamental techniques of wheel-thrown and hand-constructed 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)

ART-121B Introductory Ceramics II
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Prerequisite: ART-121A or equivalent
Accepted For Credit: CSU & UC
This course 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
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Prerequisite: ART-121B or equivalent
Accepted For Credit: CSU & UC
The course emphasis is on the designing, throwing, and glazing of more complex and difficult forms, including lidded containers, closed shapes, goblets, thin-necked bottles, and teapot sets. Repeatable = 3 times (GC)

ART-122B Ceramic Throwing II
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Prerequisite: ART-122A or equivalent
Accepted For Credit: CSU & UC
This course is a continuation of ART-122A. The emphasis is on the designing, throwing, and glazing of more complex and difficult forms, including lidded containers, closed shapes, goblets, thin-necked bottles, and teapot sets. Repeatable = 3 times (GC)

ART-123 Ceramic Decorating
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Prerequisite: ART-121B or ART-116B or equivalent
Accepted For Credit: CSU & UC
This course emphasizes all aspects of ceramic decoration including texture, carving, flattening, applied ornament, colored clays, engobes, brush making, resists, slip trailing, combing, marbling, commercial underglazes, raw oxides, and overglazes. Repeatable = 3 times (GC)

ART-124 Advanced Ceramic Decorating
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Prerequisite: ART-121B or ART-104B or equivalent
Accepted For Credit: CSU & 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-131 History of Photography
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course is a survey of photography as an historical and contemporary form of art and communication. The student will develop appreciation for, and comprehension of, the issues, practices, and theories involved in visual communication as well as gain insights into the role of photography with regard to social, cultural, and political shifts and events from its inception in the early 19th century to the present day. (GC)

ART-133A Black and White Photography
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This course covers the fundamental processes of photography including 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)
ART-133B  Intermediate Black and White Photography
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Prerequisite: ART-133A or instructor's approval
Accepted For Credit: CSU
This is a darkroom course in black and white photography. Students refine their use of light sensitive materials and gain hands-on experience with alternative photographic processes. This course affords the opportunity for students to emphasize creativity and artistic style. Repeatable = 1 time (GC)

ART-133C  Advanced Black and White Photography
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Prerequisite: ART-133B or instructor's approval
Accepted For Credit: CSU & UC
This is a darkroom course in black and white photography. Students learn about camera exposure as it relates to print controls. The course spends time on previsional techniques and affords the opportunity for students to emphasize creativity and artistic style. Students work independently on photography projects of their own design. Repeatable = 2 times (GC)

ART-134A  Basic Color Photography
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
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 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
36.00 hrs lecture, 126.00 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-138A  Beginning Photoshop
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-138A
Accepted For Credit: CSU & UC
This course is for photographers with limited experience or new to Adobe Photoshop. Students learn how to work with a digital "darkroom" using images supplied by the instructor for this purpose. Topics included are image file management and organization, file formats, resolution, basic image editing, selective image editing, scanning, preparing images for web-based application, how to purchase a digital camera, and more. A digital camera is not required. Repeatable = 2 times (GC)

ART-138B  Intermediate Photoshop
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-138B
Prerequisite: ART/GA-138A
Accepted For Credit: CSU
This course is for photographers wishing to increase their working knowledge of Adobe Photoshop. Students work with a digital "darkroom" using original images as well as images supplied by the instructor. Topics included are working with layers and masks, opacity and blend modes, transforming, working with text, camera raw, actions and smart filters, print and web-based workflow. A digital camera is not required. Repeatable = 2 times (GC)

ART-138A  Beginning Digital Photography
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-169A
Accepted For Credit: CSU
This course explores the photographer's creative process from several directions. Students will undertake photographic projects designed to provide engagement with a variety of subject matter and ways of photographing, look at photographic work in online and local galleries and museums, consider current issues having to do with photographic technologies, discuss their photographs with other students in an effort to improve their creative processes. Technical instruction will include camera functions, resizing and saving digital files, and minor image modification. For intense technical instruction see ART-138A and ART-138B. Repeatable = 3 times (GC)

ART-138B  Intermediate Digital Photography
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-169B
Prerequisite: ART-139A or GA-169A
Accepted For Credit: CSU
This course continues an exploration of the photographer's creative process from several directions. Students will undertake photographic projects designed to provide engagement with a variety of subject matter and ways of photographing, complete an extended photographic project of their choosing and receive guidance from the instructor and students, look at photographic work in online and local galleries and museums, consider current issues around photographic technologies, discuss their photographs with other students in an effort to improve their creative processes. Students will formalize their individual projects as books or online galleries. Technical instruction will include camera functions, resizing and saving digital files, and minor image modification. For intense technical instruction see ART-138A or ART-138B. Repeatable = 3 times (GC)

ART-145  Digital Photojournalism
18.00 hrs lecture, 54.00 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, philosophy, 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
18.00 hrs lecture, 27.00 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 completion of assignments. Students are also introduced to legal and ethical responsibilities. Repeatable = to a maximum of 9 units (GC)
ART-147 Photography/Graphic Arts Newspaper Staff
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: JOUR-147
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. Repeatable = to a maximum of 9 units (GC)

ART-148 Photography/Graphic Arts Newspaper Staff
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Cross-referenced Course: JOUR-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 = to a maximum of 9 units (GC)

ART-150A Interior Design Concepts
54.00 hrs lecture, 36.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-150A
Accepted For Credit: CSU
This is an introductory course. Students analyze interiors using basic design concepts. Principles and techniques used by professional interior designers are demonstrated. Case studies in problem solving with an emphasis on residential interiors are presented. Repeatable = 1 time (GC)

ART-150B Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-150B
Prerequisite: ART/ID-150A
Accepted For Credit: CSU
This course is a continuation of ART-150A. Interior design theories and methodologies are explored in depth through case studies emphasizing the design of public space. Repeatable = 3 times (GC)

ART-151 Visualization and Presentation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-151
Advisory: ART-150A, ART-155, or ART-108
Accepted For Credit: CSU
This course familiarizes students with current methods and materials used in the design industry to develop concepts and communicate ideas. Students will prepare a design portfolio. Repeatable = 3 times (GC)

ART-153 History of Decorative Arts
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ID-153
Accepted For Credit: CSU & UC
Students study furniture construction, styles, and periods in conjunction with the architecture and related decorative arts of each era from ancient times to the present. This course includes a brief political, religious, and cultural history which significantly influenced these arts. (GC)

ART-154 Contemporary Home Design
36.00 hrs lecture
Units: 2.00
Cross-referenced Course: ID-154
Accepted For Credit: CSU
Students will study the architectural history of home design and learn practical applications of information relating to design, construction methods, and economic practices. (GC)

ART-155A Architectural Drafting for Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-155A
Advisory: Concurrent with ART/ID/GA-163
Accepted For Credit: CSU
This course will introduce basic drafting techniques as related to architectural working drawings for interior design. Construction materials and procedures will be presented. Repeatable = 3 times (GC)

ART-155B CAD for Interior Design
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-155B
Prerequisite: ART/ID/155A or equivalent
Accepted For Credit: CSU
This course focuses on the fundamentals of computer-aided drafting as related to interior design and architectural drawings through understanding concepts rather than memorizing commands. Drawing skills are learned and developed by applying these concepts to solve practical laboratory problems. Repeatable = 3 times (GC)

ART-156 Architectural Modelmaking for Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-156
Accepted For Credit: CSU
Scale models will be developed in this class for presenting and studying architectural and interior design. A wide range of materials and processes will be explored. Repeatable = 3 times (GC)

ART-157 Professional Practice for Interior Design
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ID-157
This class introduces basic business practices for interior designers. It also includes an overview of career paths, business planning and organization, professional associations, marketing, sales, wholesale resource development, contractual obligations, and ethics. It is designed for people preparing to enter the field of interior design. (GC)

ART-158 Textiles
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-158
Accepted For Credit: CSU & UC
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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Cross-referenced Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-159A</td>
<td>Applied Design: Residential Lighting</td>
<td>1.00</td>
<td>CSU</td>
<td>ART-104A</td>
<td>ID-159A</td>
</tr>
<tr>
<td>ART-159B</td>
<td>Applied Design: Color for the Home</td>
<td>1.00</td>
<td>CSU</td>
<td>ART-104A</td>
<td>ID-159B</td>
</tr>
<tr>
<td>ART-160A</td>
<td>Computer Graphics I</td>
<td>2.00</td>
<td>CSU</td>
<td>ART-104A</td>
<td>ID-159A, GA-161A, CAOT-161A</td>
</tr>
<tr>
<td>ART-160B</td>
<td>Computer Graphics II</td>
<td>2.00</td>
<td>CSU</td>
<td>ART-104A</td>
<td>ID-159B, GA-161B, CS-160B</td>
</tr>
<tr>
<td>ART-161A</td>
<td>Digital Graphics I</td>
<td>2.00</td>
<td>CSU</td>
<td>ART-104A</td>
<td>GA-161A, CAOT-161A</td>
</tr>
<tr>
<td>ART-161B</td>
<td>Digital Graphics II</td>
<td>2.00</td>
<td>CSU</td>
<td>ART-104A</td>
<td>GA-161B, CAOT-161B</td>
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<tr>
<td>ART-162</td>
<td>Digital Graphics Lab</td>
<td>1.00</td>
<td>CSU</td>
<td>GA-162</td>
<td>GA-162</td>
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<tr>
<td>ART-163</td>
<td>Digital Arts Lab-Macintosh</td>
<td>0.50</td>
<td>CSU</td>
<td>GA-163, ID-163</td>
<td>ID-163</td>
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**ASTRONOMY**

Division: Science, Technology, and Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Cross-referenced Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR-101A</td>
<td>General Astronomy of the Solar System</td>
<td>3.00</td>
<td>CSU</td>
<td>ENGL-151B</td>
<td>ENGL-163</td>
</tr>
<tr>
<td>ASTR-101B</td>
<td>General Astronomy Beyond the Solar System</td>
<td>3.00</td>
<td>CSU</td>
<td>ENGL-151B</td>
<td>ENGL-163</td>
</tr>
<tr>
<td>ASTR-102</td>
<td>General Astronomy Lab</td>
<td>1.00</td>
<td>CSU</td>
<td>ENGL-151B</td>
<td>ENGL-163</td>
</tr>
<tr>
<td>ASTR-365</td>
<td>Supervised Tutoring</td>
<td>0.00</td>
<td>PG</td>
<td>Instructor</td>
<td>PG</td>
</tr>
</tbody>
</table>

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)
ATHLETICS

Division: Athletics and Exercise Science

ATHL-100 Intercollegiate Experience
20.00 hrs lab
Units: 0.00
Corequisite: ATHL-380
Advisory: Medical check within the last year
This course allows potential athletes to experience what it takes to be a part of an intercollegiate team. Repeatable = 2 times (NG)

ATHL-101A2 Functional Sports Performance
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
This class is for incoming student athletes to perform and develop their skills as they relate to a specific sport. This will also be an opportunity for specific coaches to evaluate individual players and to better identify deficiencies prior to the start of the season. Repeatable = 2 times (GC)

ATHL-101A3 Functional Sports Performance
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 2 times (GR)

ATHL-110A2 Sport Specific Training
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 2 times (GC)

ATHL-110A3 Sport Specific Training
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 2 times (GR)

ATHL-112A2 Advanced Strength Training
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU
This activity class is designed to assist the student athlete with advanced strength training techniques for personal muscular development. Repeatable = 2 times (GC)

ATHL-112A3 Advanced Strength Training
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This activity class is designed to assist the student athlete with advanced strength training techniques for personal muscular development. Repeatable = 2 times (GC)

ATHL-120A2 Cross Training for the Athlete
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course allows athletes to continue their strength and conditioning requirement while exploring alternate methods of exercise. There will be opportunity to develop new strength training techniques, focus on specific systems of the body, such as the cardiorespiratory system, and to achieve a sense of body readiness when it pertains to an upcoming sports season. Repeatable = 2 times (GR)

ATHL-120A3 Cross Training for the Athlete
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course allows for athletes to continue their strength and conditioning requirement while exploring alternate methods of exercise. There will be opportunity to develop new strength training techniques, focus on specific systems of the body, such as the cardiorespiratory system, and to achieve a sense of body readiness when it pertains to an upcoming sports season. Repeatable = 2 times (GR)

ATHL-122A2 Progressive Weight Training
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU
Set in the fitness lab, this course includes the use of free weights, machine weights, and lifting platforms to develop and improve muscular strength and endurance. Repeatable = 2 times (GC)

ATHL-122A3 Progressive Weight Training
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
Set in the fitness lab, this course includes the use of free weights, machine weights, and lifting platforms to develop and improve muscular strength and endurance. Repeatable = 2 times (GC)

ATHL-220 Women's Volleyball
180.00 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL-222 Women's Soccer
180.00 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL-223 Men's Soccer
180.00 hrs lab
Units: 3.00
Prerequisite: Physical exam clearance
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)
ATHL-224  Women's Waterpolo  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to complete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-225  Men's Waterpolo  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to complete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-226  Women's Basketball  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-227  Men's Basketball  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-228  Women's Swimming  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-229  Men's Swimming  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-230  Women's Softball  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-231  Men's Baseball  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-232  Women's Tennis  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-233  Men's Tennis  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Physical exam clearance  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
These courses are designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)  

ATHL-262  Coaching Volleyball  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Corequisite: Must be an active member of the intercollegiate athletic volleyball team; ATHL-380  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is a study of fundamental offensive and defensive techniques and strategies in volleyball as they apply to teaching and/or coaching. This course includes the principles of how to scout games, critique skills of athletes, and plan a practice schedule. Repeatable = 2 times (GC)  

ATHL-264  Coaching Soccer  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Corequisite: Must be an active member of the intercollegiate athletic soccer team; ATHL-380  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
Class designed for the potential soccer coach. Repeatable = 2 times (GC)  

ATHL-265  Coaching Basketball  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Corequisite: Must be an active member of the intercollegiate athletic basketball team; ATHL-380  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed for students who wish to learn fundamental offensive and defensive techniques and strategies in basketball as they apply to teaching and/or coaching. The course will also include the principles of scouting, critiquing skills of athletes, and planning a practice schedule. Repeatable = 2 times (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Schedule</th>
<th>Units</th>
<th>Prerequisites/Advisory</th>
<th>Accepted For Credit:</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-101A</td>
<td>Principles of Biology – Molecular and Cellular</td>
<td>54.00 hrs lecture, 108.00 hrs lab</td>
<td>5.00</td>
<td>Prerequisite: CHEM-101A or equivalent with a grade of C or better; Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td>CSU &amp; UC</td>
<td>This course is the first of a two-semester course that provides an introduction to biological principles for biology and health professions majors. Topics emphasized include biochemistry, cell structure and function, metabolism, cellular reproduction, Mendelian genetics, molecular genetics, genetics of prokaryotes and viruses, biotechnological techniques, and evolution. Students taking this course should plan to also take Biology 101B. (GR)</td>
</tr>
<tr>
<td>BIOL-101B</td>
<td>Principles of Biology – Organisms and Systems</td>
<td>54.00 hrs lecture, 108.00 hrs lab</td>
<td>5.00</td>
<td>Prerequisite: BIOL-101A or equivalent with a grade of C or better; Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td>CSU &amp; UC</td>
<td>This course is an introduction to biological principles for biology and health professions majors. Topics emphasized include evolution, systematics, prokaryote and eukaryote diversity (including a survey of the kingdoms Protista, Fungi, Animalia, and Plantae), anatomy and physiology of animals, plant structure and function, and ecology. This course completes the lower-division core curriculum in biology for biology and pre-health professions majors. (GR)</td>
</tr>
<tr>
<td>BIOL-103A</td>
<td>Human Anatomy and Physiology</td>
<td>54.00 hrs lecture, 54.00 hrs lab</td>
<td>4.00</td>
<td>Prerequisite: Completion within past three years of BIOL-130 and CHEM-109 with grade of C or better Advisory: Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>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)</td>
</tr>
<tr>
<td>BIOL-103B</td>
<td>Human Anatomy and Physiology</td>
<td>54.00 hrs lecture, 54.00 hrs lab</td>
<td>4.00</td>
<td>Prerequisite: BIOL-103A with a grade of C or better</td>
<td>CSU &amp; UC</td>
<td>This course includes the structural and functional relationships of the human body. The excretory, nervous, endocrine, and reproductive systems are treated. (GR)</td>
</tr>
<tr>
<td>BIOL-104</td>
<td>Basic Human Anatomy and Physiology</td>
<td>54.00 hrs lecture, 54.00 hrs lab</td>
<td>4.00</td>
<td>Advisory: BIOL-130 or equivalent within past 3 years</td>
<td>CSU &amp; UC</td>
<td>This course surveys the structure and function of the major organ systems of the human body. Emphasis is on homeostasis and regulatory mechanisms. Animal dissection and cadaver demonstrations will be presented. (GR)</td>
</tr>
<tr>
<td>BIOL-105</td>
<td>Heredity, Evolution, and Society</td>
<td>54.00 hrs lecture</td>
<td>3.00</td>
<td>Advisory: Eligible for ENGL-151B and ENGL-163</td>
<td>CSU &amp; UC</td>
<td>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)</td>
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<tr>
<td>BIOL-106</td>
<td>Microbiology</td>
<td>54.00 hrs lecture, 108.00 hrs lab</td>
<td>5.00</td>
<td>Prerequisite: BIOL-130 or equivalent with grade of C or better; Prerequisite: CHEM-109 or equivalent with grade of C or better</td>
<td>CSU &amp; UC</td>
<td>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)</td>
</tr>
</tbody>
</table>
**BIOL-107**  Microbiology and Infectious Diseases  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course is directed toward understanding the biology of microorganisms, their relationship to disease, their control, and the human defense system. (GR)

**BIOL-108**  Human Ecology  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ENVS-108  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
Human Ecology is an interdisciplinary, general education course that identifies problems created by man's modification of his environment, presents solutions to these problems, and offers appropriate alternatives. (GC)

**BIOL-109**  Biology of Sexual Reproduction  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course presents anatomy, physiology, and behavioral aspects of human sexual reproduction with emphasis on functional mechanisms. (GC)

**BIOL-114**  Introduction to Plant Biology  
45.00 hrs lecture, 27.00 hrs lab  
Units: 3.00  
Cross-referenced Course: BIOT-114  
Accepted For Credit: CSU & UC  
This course provides a basic introduction to plant biology and careers related to plant biology. Topics include basic plant structure, plant growth and development, genetics, plant molecular biology, plant genetic engineering, plant culture techniques and an introduction to California agriculture. (GR)

**BIOL-114B**  Applications in Plant and Food Biotechnology  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Cross-referenced Course: BIOT-114B  
Prerequisite: BIOT-114 or BIOL-114  
Accepted For Credit: CSU  
This course trains students for positions in the biotechnology industry. This course builds upon the basic skills learned in BIOT-114 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  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course is an introduction to biological principles for non-science majors. Fundamental biological principles are covered including cell structure and function, ecology, evolution, genetics, taxonomy, and reproduction. (GR)

**BIOL-131D**  Review of Biological Concepts  
18.00 hrs lecture  
Units: 1.00  
Corequisite: Concurrent enrollment in the appropriate biology classes  
This course is designed to review course content in selected Biology course(s). This course introduces study techniques and more in-depth discussions of basic biological principles in the selected courses. Repeatable = 3 times (CR)

**BIOL-140**  Sierra Nevada Natural History  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
An introduction to the plants, animals, and geology of the Sierra Nevada. A three-day camping and learning experience in the Sierra Nevada will take place at the end of the semester. Emphasis is on learning the common plants and animals of the region. Recommended for anyone interested in natural history or ecology of the Sierra Nevada. (GC)

**BIOL-141**  Marine Biology  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-151B  
Accepted For Credit: CSU & UC  
This course covers basic concepts of marine ecosystems including oceanographic principles, ecology, and a survey of marine habitats and diversity of marine organisms. Will include two field trips to pacific tidal zones and to San Francisco Bay ecosystems. (GR)

**BIOL-142**  Environmental Biology  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ENVS-142  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This lecture and lab course is an introduction to the biological sciences focusing on diversity, organismal interactions with their environment and with other organisms (ecology), the effects humans have had on biological diversity and ecosystems, and efforts to protect species and their habitats (conservation). (GC)

**BIOL-365**  Supervised Tutoring  
90.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)
### BIOTECHNOLOGY

Division: Science, Technology, and Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Cross-referenced Course</th>
<th>Credit Acceptance</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Biot-100</td>
<td>Biotechnology and Society</td>
<td>3.00</td>
<td>Advisory: Eligible for ENGL-101A</td>
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<td>CSU &amp; UC</td>
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<td></td>
<td>This course introduces 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)</td>
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<td>Biot-102</td>
<td>Chemical Safety and Hygiene</td>
<td>1.00</td>
<td>Cross-referenced Course: CHMT-102</td>
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<td>This course introduces the scientific principles and techniques of chemical safety and hygiene, including hazard identification, MSDS sheets, government regulations such as OSHA, FDA, FTC, and EPA, and the appropriate use of chemicals. The course also covers the fundamentals needed to understand the techniques and instrumentation involved in this powerful analytical tool. Key topics include the basics of HPLC instrumentation, detectors, including UV/vis, photo diode array, column selection, qualitative and quantitative analysis and troubleshooting HPLC systems. (GR)</td>
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<tr>
<td>Biot-104A</td>
<td>HPLC</td>
<td>0.50</td>
<td>Cross-referenced Course: CHMT-104A</td>
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<td>This course trains students in High Pressure Liquid Chromatography, a technique used to separate and analyze chemical mixtures. The course is designed for beginners and intermediate level users in HPLC who want practical laboratory experience. The lectures, supplemented by problem sets, slides, and video presentations, provide the fundamentals needed to understand the techniques and instrumentation involved in this powerful analytical tool. Key topics include the basics of HPLC instrumentation, detectors, including UV/vis, photo diode array, column selection, qualitative and quantitative analysis and troubleshooting HPLC systems. (GR)</td>
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<tr>
<td>Biot-104B</td>
<td>Gas Chromatography</td>
<td>0.50</td>
<td>Cross-referenced Course: CHMT-104B</td>
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<td>This course is designed for beginners and intermediate level practitioners who want practical laboratory experience in gas chromatography. This course provides the fundamentals needed to understand the technique and instrumentation involved in this powerful analytical tool and covers basic gas chromatography theory, different columns, phases, qualitative identification, data capture, quantitation, integration, practical applications, and troubleshooting. At the end of the class, the student will have mastered the fundamentals of GC, participated in extensive hands-on laboratory sessions, and learned specialized techniques based on the student's specific interests. (GR)</td>
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<td>Biot-104C</td>
<td>IR and UV/Vis Spectroscopy</td>
<td>0.50</td>
<td>Cross-referenced Course: CHMT-104C</td>
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<td>This hands-on, lab-based course is designed to introduce infrared spectroscopy, this course outlines the various sample handling methods and the numerous transmission and reflectance methods available for infrared analysis. Lab-based lectures will focus on Fourier Transform Infrared (FT-IR) spectroscopy and its advantages, instrument set-up and parameters, and FT-IR sample analysis methods. The course provides hands-on training for obtaining representative infrared spectra of analytical samples. Data manipulation, spectral analysis, and functional group identification will also be taught. The course will also focus on UV-Vis spectroscopy as a complementary method to IR analysis. The UV-Vis spectroscopy will focus on general principles such as wavelength, absorption, transmittance, standard curves, Beer’s-Lambert’s Law, solvent effects, hypsochromic and bathochromic shifts, chromophores, conjugation, and UV spectral analysis. This course is designed for all levels of UV-Vis/IR instrument users. (GR)</td>
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<tr>
<td>Biot-104D</td>
<td>Nuclear Magnetic Resonance Spectroscopy</td>
<td>0.50</td>
<td>Cross-referenced Course: CHMT-104D</td>
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<td>This introductory lab-based course is designed to introduce the fundamentals of NMR spectroscopy for structural elucidation of compounds in the field of organic chemistry, physical chemistry, and biochemistry. Topics include basic principles and theory of NMR and the application of chemical shifts, coupling constants, peak splitting, and peak integration to reveal the molecular structure. The course will also focus on Fourier Transform Infrared (FT-IR) spectroscopy and its advantages, instrument set-up and parameters, and FT-IR sample analysis methods. The course provides hands-on training for obtaining representative infrared spectra of analytical samples. Data manipulation, spectral analysis, and functional group identification will also be taught. The course will also focus on UV-Vis spectroscopy as a complementary method to IR analysis. The UV-Vis spectroscopy will focus on general principles such as wavelength, absorption, transmittance, standard curves, Beer’s-Lambert’s Law, solvent effects, hypsochromic and bathochromic shifts, chromophores, conjugation, and UV spectral analysis. This course is designed for all levels of UV-Vis/IR instrument users. (GR)</td>
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<tr>
<td>Biot-105</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4.00</td>
<td>Advisory: MATH-151, ENGL-151B</td>
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<td>This course introduces basic laboratory research methods (e.g., measuring volume and mass, preparing solutions, using micropipettes, operating a spectrophotometer), and introduces 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)</td>
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BIOT-106A Introduction to Bio-Manufacturing Instruments and Measurements
9.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: ENGL-151B, MATH-151
This course introduces students to basic laboratory research methods and concepts in biotechnology. Lab skills include the measurement of volumes and masses, as well as the proper use of micropipettors, pH meters, spectrophotometers, microscopes, and autoclaves. In addition, students master sterile techniques, solution preparation, aseptic culture of microbial colonies, protein concentration assay techniques, and bacterial transformation. (GR)

BIOT-106B Current Lab Methods in Bio-Pharmaceutical Industry and Standard Operating Procedures
9.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: BIOT-106A
Corequisite: BIOT-131D, BIOT-106M
This course trains students for entry-level manufacturing positions in Biotechnology. This course builds upon lab skills learned in BIOT-106A, providing theoretical background and advanced applications. Lab skills include protein purification techniques, dialysis, chromatography, electrophoresis, western blot analysis, serum fractionation, IgG purification, protein A column, ELISA, DNA analysis, and PCR. (GR)

BIOT-106M Math Applications in Biotechnology
36.00 hrs lecture
Units: 2.00
Corequisite: BIOT-106B, BIOT-131D
This course gives the student a sound foundation in mathematical operations, the metric system, calculations involving solution concentrations and dilutions, solving proportions, and other calculations encountered in biotechnology. Students also learn data management, including graphing, basic statistics and Excel. (GR)

BIOT-110A1 Introduction to DNA Techniques
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-105 or BIOL-101A
Accepted For Credit: CSU
Introduction to DNA Techniques is a continuation of laboratory skills in molecular biology introduced in BIOT-105. The course content focuses on classical recombinant DNA techniques such as DNA extraction, restriction analysis, transformation, spectroscopy, and electrophoresis. Completion of this course will prepare students to enroll in BIOT-110A2 and BIOT-110A3. (GR)

BIOT-110A2 PCR I and DNA Sequencing
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-110A1
Accepted For Credit: CSU
PCR I and DNA Sequencing is a continuation of laboratory skills in molecular biology mastered in BIOT-110A. The course content focuses on PCR cloning and DNA sequencing using the Sanger sequencing chemistry on an Applied Biosystems 310 Genetic Analyzer. (GC)

BIOT-110A3 Protein Isolation and Assays
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-110A1
Accepted For Credit: CSU
Protein Isolation and Assays continues the training in molecular biology laboratory techniques begun in BIOT-110A1 and 110A2. This course emphasizes the isolation and purification of proteins. Techniques include electrophoresis, chromatography (including HPLC & FPLC), and Western Blotting. (GC)

BIOT-111A Genomic and cDNA Library Construction and Analysis
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-110A1
Accepted For Credit: CSU
This course trains students the theory and practice lab techniques used to construct, search, and analyze simple genomic and cDNA libraries. Students will learn to use techniques such as Sanger sequencing, BLAST searches, and DNA alignment protocols for localizing minimal variable sequences to construct PCR primers, principles of primer design, and optimization techniques. (GR)

BIOT-111B PCR Primer Design & Optimization and Reverse Transcription
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-110A2
Accepted For Credit: CSU
Students will learn advanced topics in PCR, including BLAST searches and DNA alignment protocols for locating minimal variable sequences to construct PCR primers. Principles of primer design and optimization techniques for PCR reactions. Students will design primers, optimize salt and temperature parameters for PCR, and perform RT-PCR. (GR)

BIOT-112 Introduction to Bioinformatics
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: ENGL-101A and MATH-151
Accepted For Credit: CSU
This course is an introduction to computational biology and focuses on the computer analysis of biological sequences and structures. The course includes molecular biology databases, database searching, statistical techniques, genome annotation methods, phylogenetic analysis, protein structure prediction and microarray technology. Repeatable = 2 times (GR)

BIOT-113 GMP/GLP
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
This course gives an introduction to the concept of GMP (Good Manufacturing Practice) and GLP (Good Laboratory Practice), and their applications in the biotechnological manufacturing of therapeutic products. The course will discuss what is GMP and GLP, the history of GMP/GLP, federal and international regulation for GMP/GLP and how GMP/GLP are being applied in a bio-manufacturing facility. A field trip to a GMP manufacturing plant in the Bay Area is included. (GR)

BIOT-114 Introduction to Plant Biology
45.00 hrs lecture, 27.00 hrs lab
Units: 3.00
Cross-referenced Course: BIOL-114
Accepted For Credit: CSU & UC
This course provides a basic introduction to plant Biology and careers related to plant biology. Topics include basic plant structure, plant growth and development, genetics, plant molecular biology, plant genetic engineering, plant culture techniques and an introduction to California agriculture. (GR)

BIOT-114B Applications in Plant and Food Biotechnology
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Cross-referenced Course: BIOL-114B
Prerequisite: BIOT-114 or BIOL-114
Accepted For Credit: CSU
This course trains students for positions in the biotechnology industry. This course builds upon the basic skills learned in BIOT-114 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-115A  Mammalian Cell Culture Techniques  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Prerequisite: BIO-T-105 or BIOL-101A  
Accepted For Credit: CSU  
Through a series of lectures and hands-on laboratory procedures, this course introduces mammalian cell culture methods, including sterile technique, media preparation and, the establishment of primary and secondary cell lines. This course also provides students with the skills and concepts needed to work in today's biotech industry. Successful students will qualify to work as technicians in cell culture, manufacturing, and quality control. Repeatable = 1 time (GR)

BIOT-115B  Bioreactor Cell Culture Techniques  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: BIOT-115A with a grade of B or higher  
Accepted For Credit: CSU  
This course introduces animal cell culture methods, including use of a bioreactor, quality control and validation. Through a series of lectures and hands-on exercises, students will learn the techniques and concepts needed to work in the biotechnology industry. Successful students will be prepared to work in cell culture, manufacturing, and quality control as technicians. Repeatable = 1 time (GC)

BIOT-116  Biotech Summer Institute  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
This course provides hands-on experience in molecular biology concepts and techniques. Students perform a variety of molecular techniques including PCR-based DNA cloning, restriction analysis, host cell transformation, DNA sequencing, forensic DNA fingerprinting, and protein extraction and purification. (GR)

BIOT-117  Immunology  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Prerequisite: BIO-T-105 or BIOL-101A  
Accepted For Credit: CSU  
This course covers the basics of immunology and the immunological technology relevant to biotechnology. Topics covered include cell culture and protein chemistry relating to immunology, the lymphatic system, cellular immunity, cell typing, humoral immunity and immunoglobulins, making antibodies, ELISA and EIA, affinity chromatography, clinical immunology and autoimmune diseases. (GR)

BIOT-119  Clean Room Operations  
7.20 hrs lecture, 5.40 hrs lab  
Units: 0.50  
Prerequisite: BIO-T-105 or BIOL-101A  
Accepted For Credit: CSU  
This course provides background and training for clean room operations in biotechnology. This course discusses clean room classifications, regulations and procedures. Laboratory exercises simulate working conditions in clean room operations. (GR)

BIOT-120  Introduction to Scanning Electron Microscopy  
54.00 hrs lab  
Units: 1.00  
Prerequisite: BIOL-130 with a grade of B or better  
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  
18.00 hrs lecture  
Units: 1.00  
Advisory: Eligible for ENGL-101A 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 (GR)

BIOT-122  Introduction to Nanotechnology  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
Nanotechnology explores exciting potential applications of science pertaining to tiny structures. Students will be introduced to fundamentals of biology, chemistry, and engineering. (GC)

BIOT-123  Writing SOPs  
9.00 hrs lecture  
Units: 0.50  
Prerequisite: BIO-T-105 or BIOL-101A; ENGL-101A  
Accepted For Credit: CSU  
This is a short training course on the writing of Standard Operating Procedures (SOPs) for biotechnology. The course investigates the rational for writing SOPs, and discusses the standards and regulations that need to be taken into account in planning SOPs. The course also covers the procedures, formats, writing styles employed in writing, implementing and evaluating SOPs. (GR)

BIOT-131  Computing Concepts in Biotechnology  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CS-131  
Accepted For Credit: CSU  
This course introduces the basic computing concepts, the most commonly used computer algorithms, and programming languages in biotechnology. (GC)

BIOT-131D  Review of Biotechnology Concepts  
18.00 hrs lecture  
Units: 1.00  
Corequisite: BIO-T-106A and/or BIOT-106B and/or BIOT-106M  
This course reviews concepts from selected biotechnology courses. This course also introduces study techniques. Students’ questions are answered and difficult topics are clarified; extra drill is provided where needed. (GR)

BIOT-132  DNA Computing  
18.00 hrs lecture  
Units: 1.00  
Cross-referenced Course: CS-132  
Accepted For Credit: CSU  
This course introduces DNA-related matters, the basics of biochemistry, language, and computing theory. (GC)

BIOT-133  Introduction to SAS Programming  
54.00 hrs lecture  
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 an introduction to the SAS by using core elements of the SAS system programming language and procedures. (GR)
BIO T-133A  Data Analysis Using SAS
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-133A
Prerequisite: CS-133 or BIO T-133
Accepted For Credit: CSU
This course focuses on the following key areas: statistical inference, analysis of variance, multiple regression, categorical data analysis, and logistic regression. (GC)

BIO T-141B  SAS Graphing and ODS
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Cross-referenced Course: CS-141B
Advisory: CS-133 or BIO T-133
Accepted For Credit: CSU
This course introduces SAS/GRAPH and ODS. Learn how to design, construct, and display customized graphs quickly and efficiently. Learn how to create a data set from the results of most SAS procedures and build custom reports. Repeatable = 1 time (GC)

BIO T-143  Advanced SAS Programming
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-143
Advisory: BIO T-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. (GR)

BRDC-123A  Radio Operations I
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course is an introduction to the technical operation of a radio broadcast facility. Applied concepts include preparing and producing material for broadcast, gathering and delivering local news on the air, operation of KOHL Radio by FCC standards, and creating an effective audition tape. Repeatable = 1 time (GR)

BRDC-123B  Radio Operations II
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU
This course allows students to refine basic skills introduced in BRDC-123A. Advanced digital and analog production techniques are introduced. Additional areas of concentration include management and operations software systems, aircheck analysis, market overviews, and creating an effective employment package. Repeatable = 1 time (GR)

BRDC-124  Broadcast Internships
180.00 hrs lab
Units: 3.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU
This course is for students who will intern at Bay Area broadcast stations, learning various aspects of the radio broadcasting business. Repeatable = 3 times (GR)

BRDC-127A  Radio Broadcast Lab
54.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU
This course focuses on laboratory practice utilizing knowledge and techniques gained in the radio programming and production courses. KOHL Radio serves as the operational lab. (GR)

BRDC-127B  Radio Broadcast Lab
54.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU
This course focuses on laboratory practice utilizing knowledge and techniques gained in the radio programming and production courses. KOHL Radio serves as the operational lab. (GR)

BRDC-127C  Radio Broadcast Lab
54.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU
This course focuses on laboratory practice utilizing knowledge and techniques gained in the radio programming and production courses. KOHL Radio serves as the operational lab. (GR)

BRDC-127D  Radio Broadcast Lab
54.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU
This course focuses on laboratory practice utilizing knowledge and techniques gained in the radio programming and production courses. KOHL Radio serves as the operational lab. (GR)

2009-2010 OHLONE COLLEGE CATALOG
BRDC-128 Radio Programming and Marketing
36.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU
This course provides an overview of radio programming methods, strategies, promotion and evaluation techniques, and outlines the responsibilities of the professional radio program director. Repeatable = 1 time (GR)

BRDC-129 Digital Radio Studio Systems
36.00 hrs lecture, 18.00 hrs lab
Units: 2.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU
Students taking this course are introduced to advanced operational techniques of digital radio studio systems. Lab assignments are completed in the KOHL studios using the RCS Master Control platform. Repeatable = 1 time (GR)

BRDC-130 Broadcast Announcing
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Course concentration is on projection of personality, voice control, pronunciation, and related skills necessary for communication of ideas and information via broadcast. Students will learn important microphone techniques and put them to use under simulated broadcast circumstances. Repeatable = 1 time (GR)

BRDC-132 Studio Recording
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Cross-referenced Course: MUS-113
Accepted For Credit: CSU
This course is an introduction to the recording studio. The course follows the path of audio signals through the microphone, mixer, signal processors, tape recorder, and monitoring stations. The course explores various types of microphones, the functions of mixing boards, the characteristics of signal processors, and recording techniques. (GC)

BRDC-134 Final Cut Pro Editing
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students learn the basics of editing a television package in the digital medium. Students will be trained in the use of Final Cut Pro non-linear editing system under the guidance of broadcast industry professionals. The course examines how cutting edge non-linear editing technology has its roots in film editing, explores similarities between the two, and contrasts both to video editing. The course covers the history of video storage media from 2” AMPLEX tape through BETACAM and current formats including DV and HD. Students also learn camera techniques for video production and newsgathering, how to shoot interviews, video packages, and develop storytelling skills. Repeatable = 1 time (GR)

BRDC-135 Final Cut Pro – Advanced Techniques
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: BRDC-134
Accepted For Credit: CSU
Students learn advanced techniques used in commercial film and video production. Students develop the ability to create polished transitions, edit multi-camera projects, work with nested sequences, the basics of keyframing and composite modes and how to use noise reduction in Soundtrack Pro to normalize audio tracks. Repeatable = 1 time (GR)

BRDC-136 Digital Video and Lighting
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students learn the basics of shooting and editing a television package in the digital medium. Students will have the opportunity to learn to operate a DV CAM and AVID non-linear editing system under the guidance of broadcast industry professionals. The course examines how cutting edge non-linear editing technology has its roots in film editing, explores similarities between the two, and contrasts both to video editing. The course covers the history of video storage media from 2” AMPLEX tape through BETACAM and current formats including DV and HD. Students also learn camera techniques for video production and newsgathering, how to shoot interviews, video packages, and develop storytelling skills. Repeatable = 1 time (GR)

BRDC-137 Video Field Production
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: BRDC-136
Accepted For Credit: CSU
Students learn advanced techniques of shooting video for commercial television news. Students use DV CAM and BETACAM under the guidance of broadcast industry professionals. The course covers current trends in broadcast industry and examines strengths and weaknesses of digital video versus analog. The course includes teaching of advanced techniques of video production, lighting, and audio skills, both on location and in studio. Repeatable = 1 time (GR)

BRDC-138 AVID Editing
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students learn the basics of editing a television package in the digital medium. Students will be trained in the use of AVID non-linear editing system under the guidance of broadcast industry professionals. The course examines how cutting edge non-linear editing technology has its roots in film editing, explores similarities between the two, and contrasts both to video editing. The course covers the history of video storage medium from 2” AMPLEX tape through BETACAM and current formats including DV and HD. Students also develop storytelling skills. Repeatable = 1 time (GR)

BRDC-139 Advanced AVID Editing
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: BRDC-138
Accepted For Credit: CSU
Students learn advanced non-linear editing techniques used in production and post-production of commercial television programming and commercial television news. Students work with a variety of software programs used in television sitcom post-production, including Adobe AfterEffects and Boris Red, under the guidance of broadcast industry professionals. Students learn to work with audio effects and outside source material and how to export video in a variety of formats including JPEG, CD, BETACAM, and DV. Repeatable = 1 time (GR)

BRDC-140 TV Control Room Equipment
54.00 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
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students participate in the production of a live, weekly newscast. Students will learn the fundamentals of television news production, including both technical and air-talent functions. Repeatable = 2 times (GR)

BRDC-142 Live TV Studio Production
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students enrolled in this course will participate in the production of a variety of live TV broadcasts. Students will learn the basic fundamentals of television production as it pertains to non-newscast formats. Positions for students include both technical and air-talent personnel. Repeatable = 2 times (GR)

BRDC-143 The Newsroom Operation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
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 = 1 time (GR)

BRDC-144 Sports Broadcasting
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: Successful completion of at least one of the following Broadcasting Department courses: BRDC-134, BRDC-136, BRDC-138, BRDC-141, BRDC-142, BRDC-148, or BRDC-152
Accepted For Credit: CSU
Students get training and hands-on experience producing and doing play-by-play of college sporting events which are broadcast live on Ohlone College Television and streamed to the Internet. Repeatable = 1 time (GR)

BRDC-148 Directing Live Television
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: BRDC-141 or BRDC-142
Accepted For Credit: CSU
This is an advanced course for students wishing to pursue directing and technical directing for television. Students will participate in all aspects of preparing a television news program for live broadcast. Repeatable = 3 times (GR)

BRDC-150 Music Video Production
162.00 hrs lab
Units: 3.00
Advisory: One of the following: BRDC-134, 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 nonlinear editing equipment, as well as information on marketing a music video. Repeatable = 2 times (GR)

BRDC-152 Film and Video Production
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Corequisite: BRDC-134, BRDC-136, BRDC-138, BRDC-141, BRDC-142, BRDC-148, or BRDC-180
Accepted For Credit: CSU
Introduction to filmmaking, with emphasis on lighting and steps in film production. (GR)

BRDC-155 Mass Media and Society
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: JOUR-155
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
We swim in an ocean of media. Our thoughts, beliefs, life choices, jobs, government and shopping decisions are all influenced by the media. Most of us complain about it, but we wouldn’t turn the media off, even if we could. Yet we don’t know much about it. Who decides what messages get sent? What do the senders want? How do we process the messages? How does the technology work? Your media exposure will continue for the rest of your life. This class aims to make you a more informed, critical consumer. (GR)

BRDC-179 History of Television Broadcasting
54.00 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 Zworkin, 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. (GC)

BRDC-180 Make a Movie
162.00 hrs lab
Units: 3.00
Cross-referenced Course: TD-180
Advisory: TD-114
Accepted For Credit: CSU
In this course students will participate in the production of episodic television programs. Positions for students include both talent and technical operations. Repeatable = 2 times (GR)

BRDC-365 Supervised Tutoring
180.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

BUSINESS ADMINISTRATION
Division: Fine Arts, Business, and Communication Studies

BA-101A Financial Accounting
90.00 hrs lecture
Units: 5.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU & UC
This course introduces accounting theory, procedures, and practices relating to financial accounting. (GR)
BA-101B Managerial Accounting  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: BA-101A  
Accepted For Credit: CSU  
This course is an introduction to managerial accounting including the analysis and interpretation of accounting data to aid management. (GR)

BA-102A Principles of Economics-Macroeconomics  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-153  
Advisory: Eligibility for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course is an introduction to macroeconomics. The topics explored include supply and demand, government spending, taxation, business cycles, fiscal policy, monetary policy, money and banking system, inflation, unemployment, national income, and international economics. (GC)

BA-102B Principles of Economics-Microeconomics  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-153  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course is an introduction to microeconomics. The topics explored include demand, supply, market structure, pricing policies, labor market, elasticity and its application, public goods and common resources, and environmental policy. (GC)

BA-104 Computer Applications in Accounting  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: BA-101A or BA-106  
Accepted For Credit: CSU  
This course covers the application of accounting theory on the computer using spreadsheet software. (GR)

BA-105 Income Tax Principles  
72.00 hrs lecture  
Units: 4.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course provides an analysis of the principles, procedures, and terminology of income taxes on individual taxpayers. (GC)

BA-106 Applied Accounting  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: Eligible for ENGL-151A; concurrent enrollment in BA-123  
Accepted For Credit: CSU  
This course covers fundamentals of accounting theory and applications. (GC)

BA-107 Cost and Managerial Accounting  
72.00 hrs lecture  
Units: 4.00  
Prerequisite: BA-101A and BA-101B  
Accepted For Credit: CSU  
This course presents the theory, procedures, and practice relating to material, labor, and factory overhead production costs, including job order, process, and standard cost systems. It also includes analytical skills used to interpret accounting data to be used by management in planning and controlling business activities. (GC)

BA-109A Computerized Accounting for Personal Finance  
22.50 hrs lecture, 13.50 hrs lab  
Units: 1.50  
Advisory: Concurrent enrollment in BA-101A or BA-106  
This course is designed to prepare students for employment in a home-based or small business office. Quicken, a program for organizing and managing financial information and performing online banking and bill payment in small business and home-based offices, will be presented. (GC)

BA-109B Computerized Accounting for Small Business  
22.50 hrs lecture, 13.50 hrs lab  
Units: 1.50  
Advisory: Concurrent enrollment in BA-101A or BA-106  
This course is designed to meet the accounting needs of a small business. A widely-used software package (such as QuickBooks) will be presented. (GC)

BA-115 Career Communication  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: SPCH-115  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
Develop vital communication skills for global and diverse professional environments including presentational skills, interviewing, meeting management, small group communication, and leadership skills. (GR)

BA-116 Business English and Communication  
72.00 hrs lecture  
Units: 4.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course reviews the fundamentals of English grammar, punctuation, and sentence structure from a business approach. Writing skills for clear and effective business communication are developed through letters and reports. (GC)

BA-121A Developing Your Business Plan  
9.00 hrs lecture  
Units: 0.50  
This is a class designed for students considering starting their own businesses. All major elements of a Business Plan will be covered: financial statements, marketing, and competitive strategies. (GC)

BA-121B Legal Aspects of Small Business  
9.00 hrs lecture  
Units: 0.50  
This course is designed for students interested in establishing a business and needing information about the legal issues involved. The information is very practical and is presented in a clear, concise manner. Legal aspects such as forms of ownership, licensing, and taxes will be covered. (GC)

BA-123 Math for Accounting and Business  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and MATH-151  
Accepted For Credit: CSU  
This course focuses on methods of problem interpretation and solving of common business calculations. Problems such as taxes, interest, depreciation, stocks, and insurance are covered by means of lecture and individual operations of calculators and computers. (GC)
BA-125 Introduction to Business  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
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. This is a survey course designed to give students a brief outline of most of the major activities in business. (GC)  

BA-126 Introduction to Marketing  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course explores all fundamental aspects of marketing and the role marketing plays in the overall context of business. How markets develop, market segmentation and target marketing, the 4Ps of marketing (product, price, promotion, placement), and marketing theory and practice are examined in detail. (GC)  

BA-129 Introduction to Advertising  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course 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-136 Introduction to International Business  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This course presents the latest theories and concepts of international business while highlighting the leading role culture plays in global commerce. (GC)  

BA-137 Introduction to International Marketing  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
Survey course that covers the essential elements of international marketing, beginning with its definition and concluding with international marketing strategy implementation. (GC)  

BA-138A Services Export Marketing  
18.00 hrs lecture  
Units: 1.00  
Accepted For Credit: CSU  
An examination of marketing services in a global environment. This course will identify the unique cultural and structural challenges involved in exporting services and the strategies and tools to overcome these challenges. Students will also learn about service export market entry strategies, most promising service exports, and how to identify suitable export markets. (GR)  

BA-139 Psychology in the Workplace  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: PSY-139  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course applies principles of psychology to the workplace. Topics include combination skills, stress, cultural diversity, teamwork, understanding self and others, motivation, leadership, and other factors crucial to functioning effectively in the workplace. (GC)  

BA-141A Business Law  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A and ENGL-163  
Accepted For Credit: CSU  
This course is an introduction to law applicable to business including the legal environment of business, ethics, sustainability, contracts, agency, and sales law. This course also satisfies the real estate law requirement for the real estate certificate. (GC)  

BA-141C An Introduction to International Business Law  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A and ENGL-163  
Accepted For Credit: CSU  
This course is an introduction to international business law, featuring trade (import and export), licensing agreements for the transfer and protection of patents, copyrights, trademarks and intellectual property (including franchising), and active foreign investment through mergers, acquisitions, and joint ventures. (GC)  

BA-143 Sports Marketing  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: KIN-243  
Accepted For Credit: CSU  
This course examines the application of the principles of promotion and marketing to the sport and fitness industry. The areas covered will include high school/collegiate athletics, professional sports, and the fitness club industry. (GC)  

BA-142 International Economics  
54.00 hrs lecture  
Units: 3.00  
Advisory: BA-102A, BA-102B  
Accepted For Credit: CSU  
Students study theories of the causes and effects underlying international economies with a focus on international trade, international finance, and the study of governmental policies that alter the pattern of trade between nations. (GR)  

BA-144 Sports Management  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: KIN-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  
54.00 hrs lecture, 162.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160A, GA-160A, CS-160A  
Advisory: ART-104A  
Accepted For Credit: CSU & UC  
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)
### Computer Graphics II
- **BA-160B**
  - **Course:** 54.00 hrs lecture, 162.00 hrs lab
  - **Units:** 4.00
  - **Cross-referenced Course:** ART-160B, GA-160B, CS-160B
  - **Prerequisite:** ART/BA/GA/CS-160A or equivalent
  - **Accepted For Credit:** CSU
  - **Description:** 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 workstation. Students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 1 time (GC)

### Business Ethics
- **BA-166**
  - **Course:** 54.00 hrs lecture
  - **Units:** 3.00
  - **Advisory:** Eligible for ENGL-151B and MATH-151
  - **Description:** This course is an introduction to the reasoning and analytical skills needed to resolve moral issues faced in business. (GC)

### Investment Fundamentals
- **BA-169**
  - **Course:** 54.00 hrs lecture
  - **Units:** 3.00
  - **Prerequisite:** ART/BA/GA/CS-160A or equivalent
  - **Description:** This course is a continuation of BA-160A. The emphasis in this course focuses on critical, reflective thinking. Repeatable = 2 times (GC)

### Service Learning Internship
- **BA-192**
  - **Course:** 72.00 hrs lab
  - **Units:** 1.00
  - **Accepted For Credit:** CSU
  - **Description:** Service Learning is a teaching and learning method that integrates community service with academic coursework as it focuses on critical, reflective thinking. Repeatable = 2 times (GC)

### Work Experience Education – Vocational
- **BA-195A1**
  - **Course:** 75.00 hrs lab
  - **Units:** 1.00
  - **Accepted For Credit:** CSU
  - **Description:** Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

- **BA-195A2**
  - **Course:** 150.00 hrs lab
  - **Units:** 2.00
  - **Accepted For Credit:** CSU
  - **Description:** Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

- **BA-195A3**
  - **Course:** 225.00 hrs lab
  - **Units:** 3.00
  - **Accepted For Credit:** CSU
  - **Description:** Work experience education for students employed in a job directly related to a major. Units received are based on hours worked. (GC)

- **BA-195A4**
  - **Course:** 300.00 hrs lab
  - **Units:** 4.00
  - **Accepted For Credit:** CSU
  - **Description:** 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 Communication Studies

- **BSM-101 Fundamentals of Supervision**
  - **Course:** 54.00 hrs lecture
  - **Units:** 3.00
  - **Advisory:** Eligible for ENGL-151B
  - **Accepted For Credit:** CSU
  - **Description:** 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**
  - **Course:** 54.00 hrs lecture
  - **Units:** 3.00
  - **Advisory:** Eligible for ENGL-151B
  - **Accepted For Credit:** CSU
  - **Description:** This course covers interpersonal communications, employee-employer relations, ethnic cultural awareness, conflict resolution, stress, and team development. (GC)

- **BSM-103 Management of Human Resources**
  - **Course:** 54.00 hrs lecture
  - **Units:** 3.00
  - **Advisory:** Eligible for ENGL-151B
  - **Accepted For Credit:** CSU
  - **Description:** 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**
  - **Course:** 54.00 hrs lecture
  - **Units:** 3.00
  - **Advisory:** Eligible for ENGL-151B
  - **Accepted For Credit:** CSU
  - **Description:** This course covers operations management: materials/production/project management, safety, total quality management principles and practices. (GC)

- **BSM-106 Communication for Supervisors**
  - **Course:** 54.00 hrs lecture
  - **Units:** 3.00
  - **Accepted For Credit:** CSU
  - **Description:** 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**
  - **Course:** 54.00 hrs lecture
  - **Units:** 3.00
  - **Advisory:** Eligible for ENGL-151B
  - **Accepted For Credit:** CSU
  - **Description:** 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**
  - **Course:** 75.00 hrs lab
  - **Units:** 1.00
  - **Accepted For Credit:** CSU
  - **Description:** Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)
CHMT-103B Chemical Technology II – Analytical Skills
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: CHMT-103A
Students gain extensive training in lab skills pertaining to chemistry. The course focuses on the use of chemical principles in chemical analysis. Topics include sample preparation, SOPs, gravimetric analysis, titrimetric analysis, qualitative and quantitative analysis, potentiometry, combustion analysis, atomic spectroscopy, and electrochemistry. Analytical separations such as filtration, recrystallization, sublimation, extraction, melting point analysis, chromatography (TLC and column), gel electrophoresis, and bioanalysis will also be taught. In addition, this course will cover the scientific method, statistics of sampling, error analysis, the analytical process, proper measurement protocols, data processing, lab notebook protocols, and the proper writing of industry-style lab reports. (GR)

CHMT-104A HPLC
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Cross-referenced Course: BIOT-104A
This course trains students in High Pressure Liquid Chromatography, a technique used to separate and analyze chemical mixtures. The course is designed for beginners and intermediate level users in HPLC who want practical laboratory experience. The lectures, supplemental by problem sets, slides, and video presentations, provide the fundamentals needed to understand the techniques and instrumentation involved in this powerful analytical tool. Key topics include basic HPLC instrumentation, detectors, including UV/vis, photo diode array, column selection, qualitative and quantitative analysis and troubleshooting HPLC systems. (GR)

CHMT-104B Gas Chromatography
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Cross-referenced Course: BIOT-104B
This course is designed for beginners and intermediate level practitioners who want practical laboratory experience in gas chromatography. This course provides the fundamentals needed to understand the technique and instrumentation involved in this powerful analytical tool and covers basic gas chromatography theory, different columns, phases, qualitative identification, data capture, quantitation, integration, practical applications, and troubleshooting. At the end of the class the student will have mastered the fundamentals of GC, participated in extensive hands-on laboratory sessions, and learned specialized techniques based on the student’s specific interests. (GR)

... CHEMICAL TECHNOLOGY ...

Division: Science, Technology, and Engineering

CHMT-102 Chemical Safety and Hygiene
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Cross-referenced Course: BIOT-102
This course is about chemical and lab safety in the workplace with emphasis on hazardous materials and chemical safety; MSDS sheets; government regulations such as OSHA, FDA, FTC, and EPA; appropriate chemical disposal and recycling methodologies; inventory and storage; classification of chemicals according to safety and health hazards; ANSI standards; workers compensation; and quality assurance. In addition, a brief overview of development of Good Laboratory Practice (GLP) and Good Manufacturing Practice (GMP) will be taught. Students will also undergo basic first aid training, fire extinguisher training, and basic CPR training. (GR)

CHMT-103A Chemical Technology I
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: ENGL-151B, MATH-151
This is a basic course that covers chemical principles, plus career and educational aspects of chemical technology. Topics will cover chemical nomenclature, atoms and molecules and their reactions, chemical and physical properties of materials, and chemical principles. In addition, students will get hands-on training in sample preparation, keeping lab notebooks, industry-based data processing, operation of basic lab equipment, and bioanalysis. This course will also cover employment opportunities, job functions, and case studies of workplace activities with hands-on industry-based labs. (GR)
CHMT-104C  **IR and UV/Vis Spectroscopy**
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Cross-referenced Course: BIOT-104C  
Prerequisite: CHEM-106B or CHEM-109  
A hands-on, lab-based course designed to introduce infrared spectroscopy, this course outlines the various sample handling methods and the numerous transmission and reflectance methods available for infrared analysis. Lab-based lectures will focus on Fourier Transform Infrared (FT-IR) spectroscopy and its advantages, instrument set-up and parameters, and FT-IR sample analysis methods. The course provides hands-on training for obtaining representative infrared spectra of analytical samples. Data manipulation, spectral analysis, and functional group identification will also be taught. The course will also focus on UV-Vis spectroscopy as a complementary method to IR analysis. The UV-Vis spectroscopy will focus on general principles such as wavelength, absorption, transmittance, standard curves, Beer's-Lambert's Law, solvent effects, hypsochromic and bathochromic shifts, chromophores, conjugation, and UV spectral analysis. This course is designed for all levels of UV-Vis/IR instrument users. (GR)

CHMT-104D  **Nuclear Magnetic Resonance Spectroscopy**
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Cross-referenced Course: BIOT-104D  
Prerequisite: CHEM-106B or CHEM-109  
An introductory lab-based course geared towards understanding the application of NMR spectroscopy for structural elucidation of compounds in the fields of organic chemistry, physical chemistry, and biochemistry. Topics include basic principles and theory of NMR and the application of chemical shifts, coupling constants, peak splitting, and peak integration to reveal the molecular structure. Labs will include important one-dimensional experiments and their application in assignments and structure determination problems. In addition, the students will get hands-on experience in acquiring NMR spectra using fundamental concepts of instrumentation such as shimming, sample probes, integration, peak and signal parameters, and basic troubleshooting. (GR)

CHEM-101B  **General Chemistry**
54.00 hrs lecture, 108.00 hrs lab  
Units: 5.00  
Prerequisite: CHEM-101A with a grade of C or better  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
CHEM-101B continues the study of chemistry taught in CHEM-101A. Theory and mathematical applications are emphasized. This course is designed for science-oriented majors including biology, chemistry, engineering, and pre-professional health. Topics include organic chemistry, kinetics, equilibrium, acids and bases, solubility, thermodynamics, electrochemistry, nuclear chemistry, and coordination compounds. (GR)

CHEM-102  **Preparation for General Chemistry**
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-151  
Accepted For Credit: CSU & UC  
This course is a preparatory chemistry course covering the fundamentals of modern inorganic chemistry with emphasis on problem solving. Topics include classification of matter, atomic and molecular structure, chemical formula and nomenclature, chemical equations and stoichiometry, thermodynamics and gas laws and solutions. Chemistry 102 is intended primarily as preparation for students planning to take college level Chemistry 101A. This course is recommended for students who have been away from high school chemistry for more than two years or those whose previous chemistry background is inadequate for Chemistry 101A. (GR)

CHEM-106A  **Principles of Chemistry**
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-151  
Accepted For Credit: CSU & UC  
This is an introductory chemistry course for non-science majors who plan to transfer to programs which require two semesters of chemistry, other than CHEM-101A and CHEM-101B. Topics include dimensional analysis, nomenclature, atomic theory, bonding, chemical reactions, gas laws, solutions, and colligative properties. It satisfies the general education requirements for non-science majors. (GR)

CHEM-106B  **Principles of Chemistry**
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CHEM-106A with grade of C or better  
Accepted For Credit: CSU & UC  
This is an introductory chemistry course for non-science majors who plan to transfer to programs which require two semesters of chemistry, other than CHEM-101A + Chem-101B. The course includes material from organic chemistry and biochemistry, including the major classes of organic molecules, basic reactions, the major processes which take place in body fluids, proteins, nucleic acids, and a brief overview of metabolism. This course satisfies the general education requirements for non-science majors. (GR)

CHEM-108  **Survey of Chemistry**
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
This is a general education, non-lab course about the chemistry of everyday things. Some of the topics considered are food, medicine, petroleum, pollution, plastics, cosmetics, and poisons. The course gives information about atoms and structure to help students interpret everyday occurrences from a molecular point of view. Concepts, not calculations, are emphasized. The course is intended for non-science majors wishing to satisfy the General Education science requirement for CSU and UC transfer institutions. (GC)
CHEM-109 Biochemistry for Health Science and Biotechnology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-151
Accepted For Credit: CSU & UC
This course covers the basic concepts of inorganic and organic chemistry and biochemistry as they apply to the human body. It is open to all students; no previous chemistry required. This course satisfies the requirements of nursing, biotechnology, and related majors that require one semester of chemistry. Students preparing to enroll in CHEM-101A should enroll in CHEM-102. (GR)

CHEM-112A Organic Chemistry
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: CHEM-101B with a grade of C or better
Accepted For Credit: CSU & UC
CHEM 112A is the first semester of organic chemistry for science-oriented, pre-professional health and pre-engineering students. This course includes a study of important organic molecules found in living systems and man-made molecules. This course is designed primarily for students who require a full year of organic chemistry, including multistep synthesis and heterocyclic compounds and advanced spectroscopy. (GR)

CHEM-112B Organic Chemistry
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: CHEM-101B with grade of C or better
Accepted For Credit: CSU & UC
CHEM 112B is the second semester of organic chemistry for science oriented pre-professional health, and pre-engineering students. This course includes a study of important organic molecules found in living systems and man-made molecules. This course is designed primarily for students who require a full year of organic chemistry, including nomenclature, multistep synthesis, mechanisms and heterocyclic compounds and spectroscopy. (GR)

CHEM-131D Review of Chemistry Concepts
18.00 hrs lecture
Units: 1.00
This course is designed to review the content in selected Chemistry course(s). It is an introduction to study techniques and more in-depth discussions of chemistry principles and problem solving. Repeatable = 3 times (CR)

CHEM-190 Scientific Research Methodology
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
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
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

CHICANO STUDIES
Division: Humanities, Social Sciences, and Mathematics

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

CHS-102 Chicano History
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-112
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course covers the development of Chicano history. Special emphasis will be placed upon the influence of Chicano history on contemporary institutions, particularly in the Southwest and California. (GC)

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

CHS-109 Barrio Fieldwork
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Observation of selected barrios, institutions, agencies. (GR)

CHS-112 Contemporary Issues of Chicanas
54.00 hrs lecture
Units: 3.00
Prerequisite: Eligible for ENGL-101A and completion of ENGL-163 or equivalent
Accepted For Credit: CSU & UC
This course is an examination of the historical, social-economic, and political conditions which have shaped the lives of contemporary Chicanas in the United States. It will explore cultural patterns underlying race, class, and gender-based strategies and inequities as basic elements of contemporary social structure. (GC)
CHINESE

Division: Humanities, Social Sciences, and Mathematics

CHIN-101A Elementary Mandarin Chinese I
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Accepted For Credit: CSU & UC
This course is an introduction to modern standard Chinese language (Mandarin). Students will acquire listening, speaking, reading and writing skills in or to communication effectively in simple Chinese for common everyday purposes. This course teaches the Chinese phonetic system, the structures of Chinese characters, the basic Chinese grammatical concepts and aspects of Chinese culture in relation to the topic of the concurrent lesson. (GR)

CHIN-101B Elementary Mandarin Chinese II
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: CHIN-101A with a grade of C or better, or two years of high school Chinese
Accepted For Credit: CSU & UC
This course is a continuation of Chinese 101A. Students will continue to acquire listening, speaking, reading and writing skills in Chinese (Mandarin) and will continue cultural studies as an integral part of the course. (GR)

CHIN-102A Intermediate Mandarin Chinese I
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: CHIN-101B with a grade of C or better, or three years of high school Chinese
Accepted For Credit: CSU & 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
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: CHIN-102A with a grade of C or better
Accepted For Credit: CSU & 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
54.00 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
54.00 hrs lecture
Units: 3.00
Prerequisite: CHIN-121A or equivalent
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
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)

COMMUNICATION

Division: Fine Arts, Business, and Communication Studies

COMM-100 Introduction to Communication Theory
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU
Analysis and evaluation of communication theories and research and the role of mediated technology on the communication process. (GR)

COMM-108 Visual Communication
54.00 hrs lecture, 36.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course explores the fundamental elements of visual communication presented through lectures and applied through studio experiences. Examine the methods of visual communication from Gutenberg to Google, analyzing examples in a variety of visual forms including print (newspaper and magazine), graphics, illustrations, photographs, video, motion pictures, and digital media. (GR)

COMPUTER APPLICATIONS AND OCCUPATIONAL TECHNOLOGY

Division: Science, Technology, and Engineering

CAOT-101L Computer Applications
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Cross-referenced Course: CS-101L
Advisory: CS-101 or equivalent
Accepted For Credit: CSU & UC
Topics covered in this course include programs in word processing, spreadsheets, database, presentation graphics, information management, and integration of all the above-mentioned programs. (GC)

CAOT-104 Basic Keyboarding
54.00 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 = 3 times (CR)

CAOT-110A Beginning Keyboarding
9.00 hrs lecture, 27.00 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
9.00 hrs lecture, 27.00 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  
9.00 hrs lecture, 27.00 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  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: CAOT-110C or one year high school typewriting  
This self-paced course includes improvement of basic skills, letter production, business forms, tabulated reports, and manuscripts. (GC)

CAOT-112  Advanced Keyboarding  
18.00 hrs lecture, 54.00 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)  
18.00 hrs lecture, 27.00 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. Repeatable = 3 times (GC)

CAOT-121  ESL and Basic Computer Skills (Part II)  
18.00 hrs lecture, 27.00 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. Repeatable = 3 times (GC)

CAOT-134A  Beginning Microsoft Access  
4.50 hrs lecture, 13.50 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 = 2 times (GC)

CAOT-134B  Intermediate Microsoft Access  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an intermediate database course using Microsoft Access, which reviews basic database concepts and teaches database skills. This course is the second of three sequencing courses in the Microsoft Office Suite. Repeatable = 1 time (GC)

CAOT-134C  Advanced Microsoft Access  
4.50 hrs lecture, 13.50 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  
18.00 hrs lecture, 54.00 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  
36.00 hrs lecture, 54.00 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-146  Computer Applications in Engineering  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Corequisite: ENGI-101  
This course introduces basic computer skills necessary to perform tasks required in an introductory Engineering course. This course covers key concepts in MS Word, Excel, PowerPoint, Internet functions and etiquette. Repeatable = 1 time (GR)

CAOT-147  Computer Applications in Biology  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Corequisite: BIOL-101A  
This course introduces basic computer skills necessary to perform tasks required for biology majors. This course covers key concepts in Excel, PowerPoint, and Access. Repeatable = 1 time (GR)

CAOT-148  Computer Applications in Biotechnology  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Corequisite: BIOT-105  
This course introduces basic computer skills necessary to perform tasks required in an introductory biotechnology course. This course covers key concepts in Excel, PowerPoint, and Access. Repeatable = 1 time (GR)

CAOT-150  Computer Applications for Chemistry  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Corequisite: CHEM-101A  
This course introduces basic computer skills necessary to perform tasks required in an introductory Chemistry course. This course covers key concepts in Excel, PowerPoint, and Word. Repeatable = 1 time (GR)

CAOT-153  Introduction to Internet  
18.00 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. (GC)

CAOT-156  Microsoft Publisher  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an introduction to desktop publishing using Microsoft Publisher software. Students will produce the following documents: flyer, newsletter, brochure, business forms, and a simple web site. Repeatable = 1 time (GC)
CAOT-161A Digital Graphics I
18.00 hrs lecture, 90.00 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
18.00 hrs lecture, 90.00 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
4.50 hrs lecture, 13.50 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
45.00 hrs lecture, 27.00 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
45.00 hrs lecture, 27.00 hrs lab
Units: 3.00
Advisory: CAOT-166
Accepted For Credit: CSU
This course introduces the advanced drafting concepts of AutoCAD for three dimensional designs and for connecting with other programs. (GC)

CAOT-172A Beginning Word
4.50 hrs lecture, 13.50 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
4.50 hrs lecture, 13.50 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
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: CS-101L
This course focuses on discipline-specific projects for Microsoft Office using Excel, PowerPoint, Access, and Word. Repeatable = 1 time (GC)

CAOT-187 PowerPoint Presentations
4.50 hrs lecture, 13.50 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
18.00 hrs lecture, 54.00 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 that contain text and graphics will be designed, created, edited, and printed. (GC)

CAOT-193A Beginning Excel
4.50 hrs lecture, 13.50 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
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Advisory: CAOT-193A; eligible for ENGL-151B, ENGL-163
This is an intermediate course in the use of Excel for business applications. Topics include working with mixed cell references, large worksheets, simple database functions, charts, and working with multiple worksheets. Repeatable = 1 time (GC)

CAOT-193C Advanced Excel
4.50 hrs lecture, 13.50 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
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Eligible for ENGL-151B and ENGL-163
This is an advanced course in the use of Microsoft Office software for business applications. Topics include an introduction to Microsoft Word, Excel, Access, and PowerPoint. (GC)

CAOT-195A1 Work Experience Education – Vocational
75.00 hrs lab
Units: 1.00
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
150.00 hrs lab
Units: 2.00
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
225.00 hrs lab
Units: 3.00
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
300.00 hrs lab
Units: 4.00
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
67.50 hrs lecture, 202.50 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
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

CNET-102 Information and Communication Technology – Web 2.0
54.00 hrs lecture
Units: 3.00
Advisory: CS/CNET-101
Accepted For Credit: CSU
This course is a general introduction to the application of information and communication technology (ICT), and is designed for students who have a focused interest in connecting, collaborating and sharing knowledge. This course will examine Web 2.0 applications and services – such as social-networking sites, wikis, and folksonomies – which aim to facilitate collaboration and sharing between users. (GC)

CNET-105 PC Hardware and Software
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
This course includes hardware and software topics relevant to personal computer (PC) troubleshooting. Emphasis is placed on developing essential troubleshooting and repair skills and preparation for the A+ certification exam. Repeatable = 3 times (GC)

CNET-108 IT Project Management
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
Learn the concepts and skills that build the foundations of project management – project integration, scope, time, cost, quality, human resources, communications, risk, and procurement – within an information technology environment. (GC)

CNET-114 How Technology Works
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: ENGL-114
Accepted For Credit: CSU
This course is intended for students of all disciplines who are interested in how everyday things work. It is an introduction to some of the fundamental science concepts underpinning high technology, emphasizing everyday devices and practical experience, for the development of scientific and computer literacy. Students will experiment with technology to discover principles of science. Concepts such as force, work, energy, power, liquids and gasses, heat transfer, electricity, magnetism, electronics, light, materials science, and time are explored through experimentation and observation. Students will experience through class demonstrations and hands-on laboratories the concepts presented by the instructor. Phenomena such as how computers convert data, how iPods transmit sound, how electronic thermometers measure temperature, how solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)
CNET-115 Introduction to Robotics and Automated Systems  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ENGI-135  
Accepted For Credit: CSU  
Students who take this class will understand how scientific innovation can affect their lives either directly or indirectly. The class will teach students the principles of scientific methodology as it is applied to solving problems. The application of this scientific method will be used to navigate an abundance of technical information – to obtain the information, to understand the information, and to determine how to apply it. This course describes the functional hardware and software components of automated systems. The student will experience how scientific principles are applied by building and programming robots. The emphasis is for students to learn science by actually doing science. Repeatable = 3 times (GC)

CNET-116 Introduction to Programming Using Robotics  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
This course is designed to teach the beginning programmer how code programs using robots. Emphasis will be placed on basic Java programming concepts and skills. A “Create” robot from iRobot is used by the student to exercise their new programming skills. Students learn to program in PL/SQL and understand the use of blocks of application code that can be used by forms and reports. Students learn to create procedures, functions, and built-in packages. Repeatable = 2 times (GC)

CNET-135 Database Fundamentals I: Database Architecture and Administration  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Advisory: Knowledge of SQL or knowledge of a programming language  
Accepted For Credit: CSU  
In this course students learn to startup and shutdown a database, create a database, manage file and database storage, and manage users and their privileges. In addition, students learn to organize the database and to move data into and between databases. Hands-on practices help to reinforce key concepts and students have an opportunity to troubleshoot real life issues when they are given examples of typical problems encountered when operating an Oracle database. (GC)

CNET-136 Database Fundamentals II: Database Backup and Recovery  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course addresses backup and recovery techniques and examines various backup, failure, restore, and recovery scenarios for current versions of Oracle databases. Participants utilize multiple strategies and Oracle tools such as Recovery Manager to perform backups and restore and recovery operations. Participants have the opportunity to apply some of the more advanced techniques within a workshop environment. In addition to lecture and hands-on learning, this class addresses answers to frequently asked questions concerning backup and recovery. Repeatable = 2 times (GC)

CNET-137 Introduction to SQL  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CS-137  
Advisory: CS-101L or CNET-101L  
Accepted For Credit: CSU  
This course covers the concepts of relational databases and powerful SQL. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Demonstrations and hands-on practice reinforce the fundamental concepts. (GC)

CNET-138 PL/SQL Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CS-137 or CNET-137  
Accepted For Credit: CSU  
Students learn to program in PL/SQL and understand the use of this programming language. Students learn to create PL/SQL blocks of application code that can be used by forms and reports. Students learn to create procedures, functions, packages, to manage dependencies, to manipulate large objects, and is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-139A Database Client and Internet Forms Developer System  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: CS-137B or CNET-138  
This course introduces the functions and features of the Linux operating system including the file system, system services, processes, background processing, scheduling, and security. The course supplies students with the information they need to install and configure Linux on a personal computer. Students will get practical experience in installing, administering, and troubleshooting Linux systems. This is the first of four courses and is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-139B Database Reports Internet Developer System  
36.00 hrs lecture, 54.00 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, and format data and to create complex reports and embed graphical charts. The course covers building reports for the Web, using the Reports Server, calling Java applets, and building and deploying reports administration and security. Repeatable = 2 times (GC)

CNET-140A Linux Installation and Configuration  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: CNET-150; CS-146 or CNET-146  
Accepted For Credit: CSU  
This course introduces the functions and features of the Linux operating system including the file system, system services, processes, background processing, scheduling, and security. The course supplies students with the information they need to install and configure Linux on a personal computer. Students will get practical experience in installing, administering, and troubleshooting Linux systems. This is the first of four courses and is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-140B Linux System Administration  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: CNET-150; CS-146 or CNET-146  
Advisory: CNET-140A  
Accepted For Credit: CSU  
This course introduces the fundamental knowledge and skills needed to install, manage, and maintain a Linux computer system. Advanced system management tasks like file system management, patching, rebuilding the kernel, configuring networking interfaces, and system monitoring are performed in the computer lab. Shell programming and the various shells are introduced, and students will learn to write shell script programs to perform various system tasks. This course is preparation for Sair Linux and GNU certification. This is the second of four courses and is normally taught over an 8-week period. Repeatable = 3 times (GC)
CNET-141A Linux Apache Web Server Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is designed to give the student a working knowledge of web pages developed with Hypertext Markup Language (HTML), PHP: Hypertext Preprocessor (PHP), and Java Server Page (JSP). Students will install and configure the Apache Web server, the MySQL database for simple datastore purposes, and the Tomcat servlet container. Repeatable = 3 times (GC)

CNET-142A Linux Networking
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150; CS-146 or CNET-146
Advisory: CNET-140A, CNET-140B
Accepted For Credit: CSU
This course introduces the functions and features of the Linux operating system in Network. The course describes the major client and server services that are found in most networked computer systems. Students will implement in the computer lab such services as telnet, ftp, nis, nis, web, mail, dns, samba, and dhcp. This course is preparation for Sair Linux and GNU certification. This is the third of four courses and is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-142B Linux Security
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150; CS-146 or CNET-146
Advisory: CNET-140A, CNET-140B
Accepted For Credit: CSU
Students with Linux experience will gain knowledge and skills in implementing Linux security. This course is preparation for Sair Linux and GNU certification. This is the fourth of four courses and is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-144A Advanced Linux System Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Learn to use clustering and performance monitoring to keep Linux systems running. Repeatable = 3 times (GC)

CNET-145 PHP Programming with MySQL
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-145
Accepted For Credit: CSU
This is a programming class teaching the student how to access a relational database (MySQL) and generate web pages using PHP. The student does not need prior programming experience but general computer knowledge is recommended. (GC)

CNET-146 Introduction to UNIX/Linux
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Cross-referenced Course: CS-146
Advisory: CNET-150
Accepted For Credit: CSU
This lecture-lab course introduces functions of and features of UNIX/Linux operating system, including origin and evolution, hardware and software, graphical user interface, files and file system structure, system services, processes, background processing, scheduling, file security, editors, file sharing, and redirection and piping. Students are introduced to networking and internetworking, internet, shell programming, and a variety of UNIX/Linux tools commonly used for software development and system administration in a UNIX/Linux environment. Repeatable = 3 times (GC)

CNET-147 UNIX/Linux Shell Scripting
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-147
Advisory: CS-102
Accepted For Credit: CSU & UC
This hands-on course introduces a variety of tools and concepts used for working with a UNIX/Linux-based computer system. The course will present the concept of a shell and describe differences between Bourne, Berkeley C, Korn, and Bash 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. Repeatable = 3 times (GC)

CNET-149 PERL Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-149
Advisory: CS-102, CS-104A, CS-125, CS-146, CNET-146, CS-147, or CNET-147
Accepted For Credit: CSU & UC
This course presents the fundamental knowledge and skills needed to solve problems using PERL or Python 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)

CNET-150 Network Operating Systems
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: CS-101 or CNET-101
Accepted For Credit: CSU
This course provides an in-depth study of Network Operating Systems. The web-based curriculum, sponsored by Hewlett-Packard Company, is an intensive introduction to multi-tasking network operating systems. Characteristics of the Linux, Windows 2000, NT, and XP network operating systems will be discussed. Students will explore a variety of topics including 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. Repeatable = 3 times (GC)

CNET-152 Data Communications
36.00 hrs lecture
Units: 2.00
Cross-referenced Course: CS-152
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-154 Network Technician Training
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU & UC
This course prepares student's for the knowledge and skills required to successfully install, operate, and troubleshoot a small branch office network. The class includes topics on networking fundamentals; connecting to a WAN; basic security and wireless concepts; routing and switching fundamentals; the TCP/IP and OSI models; IP addressing; WAN technologies; operating and configuring IOS devices; configuring RIPV2, static and default routing; implementing NAT and DHCP; and configuring simple networks. Repeatable = 2 times (GC)
CNET-155A  Network Fundamentals  
(Cisco Certified Networking Academy CCNA I)  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-152 or CNET-152; CNET-150  
Accepted For Credit: CSU  
This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. At the end of the course, students build simple LAN topologies by applying basic principles of cabling; performing basic configurations of network devices, including routers and switches; and implementing IP addressing schemes. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. Repeatable = 3 times (GR)

CNET-155B  Routing Protocols and Concepts  
(Cisco Certified Networking Academy CCNA II)  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-152 or CNET-152; CNET-150  
Accepted For Credit: CSU  
This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1, RIPv2, EIGRP, and OSPF. By the end of this course, students will be able to recognize and correct common routing issues and problems. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. Repeatable = 3 times (GC)

CNET-156A  LAN Switching and Wireless  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Advisory: CNET-155A  
Accepted For Credit: CSU  
This course focuses on the technologies and protocols needed to design and implement a converged switched network. Students will learn how to configure a switch for basic functionality and implement virtual LANs, VTP, and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented and students will develop the knowledge and skills necessary to implement a WLAN (wireless LAN) in a small-to-medium network. This course is preparation for the Cisco Certified Network Associate (CCNA) certification. Repeatable = 3 times (GC)

CNET-156B  Wan Design and Support  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Advisory: CNET-155A, CNET-155B, and CNET-156A  
Accepted For Credit: CSU  
This is the last of four courses designed to introduce students to current and emerging networking technology. The focus of this course is on Wide Area Network (WAN) technologies. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. Repeatable = 3 times (GR)

CNET-157  TCP/IP and Internetworking  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CS-157  
Prerequisite: CS-152, CNET-152, or equivalent  
Advisory: CS-101, CNET-101, or equivalent  
Accepted For Credit: CSU  
This course provides an introduction and overview of TCP/IP technology. Topics include TCP/IP concepts, protocol architecture, and installation techniques. It prepares the student to pass the certification exam, Internetworking Microsoft TCP/IP, to become an MCP/MCSE. Repeatable = 3 times (GR)

CNET-158  Wireless Networks  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CNET-150  
Advisory: CNET-105; CNET-155A  
Accepted For Credit: CSU  
This introductory course to wireless communication and LANs focuses on the design, planning, implementation, operation and troubleshooting of Wireless LANs. It covers a comprehensive overview of technologies, security, and design best practices with particular emphasis on hands on skills. Repeatable = 3 times (GC)

CNET-160A  Microsoft Client Operating Systems  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: CNET-150  
Advisory: CS-152 or CNET-152  
Accepted For Credit: CSU  
This course provides students with the knowledge and skills necessary to set up and support the Windows Client Operating System – and prepare for the corresponding Microsoft Certified Professional (MCP) – a core requirement on the new MCSA and MCSE track. Students will get practical experience installing, administering, and troubleshooting this next-generation desktop environment. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)
CNET-161A Desktop Support I – Supporting Users
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is designed to provide individuals who are new to Microsoft Windows XP with the knowledge and skills necessary to troubleshoot the basic problems end users will face while running Microsoft Windows XP Professional in an Active Directory network environment or Windows XP Home edition in a workgroup environment. This is an introductory course designed to provide an overview of operating system concepts and how to troubleshoot Windows XP. Repeatable = 3 times (GC)

CNET-161B Desktop Support II – Supporting Applications
27.00 hrs lecture, 27.00 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 (GC)

CNET-162A Microsoft Server Operating Systems
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150
Advisory: CNET-160A
Accepted For Credit: CSU
This course provides students with the knowledge and skills necessary to set up and support the Microsoft Windows Server operating system and prepare for the corresponding Microsoft Certified Professional (MCP), a core requirement on the new MCSE and MCSE track. Students will get practical experience installing, administering, and troubleshooting this powerful enterprise server system. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-162B Windows Network Infrastructure Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150
Advisory: CNET-160A; CNET-162A; CS-152 or CNET-152; CS-157 or CNET-157
Accepted For Credit: CSU
This course prepares students as product support professionals who will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows Server products and prepare for the corresponding Microsoft Certified Professional (MCP) Exam, a core requirement on the MCSE track and elective credit on the MCSA track. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-162C Planning a Microsoft Windows Networks Infrastructure
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CS-180 or CNET-150
Advisory: CS-157 or CNET-157; CS-180A or CNET-160A; CS-180B or CNET-162A; CS-182
Accepted For Credit: CSU
This course provides students with the information and skills needed to create a networking services infrastructure design that supports the required network applications in a Microsoft Windows network environment. This course prepares students for the corresponding Microsoft Certified Professional (MCP) exam, a core requirement on the MCSE track. This course is normally taught over an 8-week period. Repeatable = 3 times (GR)

CNET-164A Microsoft Directory Services
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150
Advisory: CNET-160A; CNET-162A
Accepted For Credit: CSU
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. Repeatable = 3 times (GC)

CNET-164B Designing Microsoft Windows Directory Services Infrastructure
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150
Advisory: CNET-160A; CNET-162A; CNET-164A
Accepted For Credit: CSU
This course provides students with the knowledge and skills necessary to design a Microsoft Windows directory services infrastructure in an enterprise network. This course prepares students for the corresponding Microsoft Certified Professional (MCP) Exam, a core requirement on the MCSE track. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-165A Designing a Secure Microsoft Windows Network
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150
Advisory: CNET-157 or CNET-157; CNET-160A; CNET-162A; CNET-164A
Accepted For Credit: CSU
This course provides students with the knowledge and skills necessary to design a security framework for small, medium, and enterprise networks using Microsoft Windows technologies. This course prepares students for the corresponding Microsoft Certified Professional (MCP) Exam 70-298, a core requirement on the MCSE track. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

“My education . . . will enable me to help society by educating people on how to make the most of their lives, and to pass on to my children by example the importance education holds in our lives.”

Candy Lopez
Ohlone College Speech Communication and Business Major
CNET-165C Administering Security for Windows 2003
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course provides everything students need to build the knowledge and skills necessary to install, configure, administer, and support the security services and tools in the Microsoft Windows Server 2003 operating system. In addition, this course will help students to prepare for the Microsoft Certified Professional examination 70-299: Implementing and Administering Security in a Microsoft Windows Server 2003 Network. This certification exam measures the ability to implement, manage, maintain, and troubleshoot security in a Windows Server 2003 network infrastructure and also plan and configure a Windows Server 2003 PKI. Repeatable = 3 times (GC)

CNET-167A Network Application Administration I – Email (Exchange)
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Advisory: CNET-160A; CNET-162A
Accepted For Credit: CSU
This course teaches students the knowledge and skills necessary to install, configure, and administer Microsoft Exchange and also allows them to prepare for the corresponding Microsoft Certified Professional (MCP) exam, an elective requirement on the MCSA and MCSE track. This course is usually taught over an 8-week period. Repeatable = 3 times (GC)

CNET-168A Network Application Administration II – Database (SQL)
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Advisory: CNET-160A; CNET-162A
Accepted For Credit: CSU
This course introduces students to Microsoft SQL Server System Administration and prepares them to install and/or upgrade to SQL Server. The course also allows students to prepare for the corresponding Microsoft Certified Professional (MCP) exam, an elective requirement on the MCSA and MCSE track. This course is usually taught over an 8-week period. Repeatable = 3 times (GC)

CNET-170 Network Security
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CNET-150
Advisory: CS-146, CNET-146, CNET-160A, CNET-162A, CNET-140A, or CNET-140B
Accepted For Credit: CSU
This course provides an in-depth study of Network Security fundamentals and provides a comprehensive overview of network security. The class is broken down into five sections: General Security Concepts, Communication Security, Infrastructure Security, Cryptography, and Operational/Organizational Security. This course provides the foundation for students preparing to take the CompTIA Security+ certification exam. Repeatable = 3 times (GC)

CNET-171 Information Security
54.00 hrs lecture
Units: 3.00
Prerequisite: CNET-150
Advisory: 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. Repeatable = 3 times (GC)

CNET-172A Cisco Network Security I (CCSP)
27.00 hrs lecture, 27.00 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)
27.00 hrs lecture, 27.00 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-180 IP Telephony and VoIP Implementation
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
The course offers an overview of the issues related to carrying voice on a data network, the protocols used, and the issues associated with QoS, troubleshooting, security, and design. The course begins with describing the basic technologies used in the Public Switched Telephone System. It then describes the challenges and technologies used to send voice calls over a packet switch network like the Internet. Repeatable = 2 times (GC)

CNET-182 Advanced Routing (CCNP I)
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This is the first of four courses leading to the Cisco Certified Network Professional (CCNP) designation. This course introduces students to scaling IP networks. Students learn to use VLSM, private addressing, and NAT optimize IP address utilization. The majority of the course content is related to learning how to implement the RIPv2, EIGRP, OSPF, IS-IS, and BGP routing protocols. In addition, the course details the important techniques used for multicasting, route filtering and route redistribution. This course will prepare students for the Cisco Certified Networking Professional (CCNP) 642-901 exam. This course is normally taught in a nine-week period. (Formerly CS-188A) Repeatable = 3 times (GC)
CNET-183 Implementing Cisco Secure WANs (CCNP II)
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This is the second of four courses of the advanced study of Cisco Networking Academy. Students will gain classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: 642-825, Implementing Cisco Secure WANs (ICSW). Instruction includes DSL, PPPoE, PPPoA, MPLS, Frame Relay, VPLS, how to build a remote access network to interconnect central sites to branch offices and home office/telecommuters, and to control access to the central site, as well as maximize bandwidth utilization over the remote links. This course is normally taught in an 8-week period. Repeatable = 3 times (GC)

CNET-184 Advanced Switching (CCNP III)
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course enables learners to use appropriate technologies to build scalable multi layer switched networks, to create and deploy a global intranet, and to implement basic troubleshooting techniques in environments that use Cisco multi layer switches for client hosts and services. This course also enables learners to improve traffic flow, reliability, redundancy, and performance for LAN switching that is self-supported or transported via a service provider. This course will prepare students for the Cisco Certified Networking Professional (CCNP) exam: 642-812 (BCMSN) Building Cisco Multi layer Switching Networks. This course is normally taught over an 8-week period. Repeatable = 3 times (GC)

CNET-185 Optimizing Converged Networks (CCNP IV)
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Prerequisite: CNET-155A/B and CNET-156A/B; or CCNA certification
Advisory: CS-157 or CNET-157
Accepted For Credit: CSU
This is the last of four courses of the advanced study of Cisco Networking Academy. This course is designed to provide students with classroom and laboratory experience optimizing converged networks that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: 642-845 Cisco Optimizing Converged Cisco Networks. Instruction includes troubleshooting methodology, network documentation, and debug. This course is normally taught over a 9-week period. (Formerly CS-188D) Repeatable = 3 times (GC)

CNET-195A1 Work Experience Education – Vocational
75.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CNET-195A2 Work Experience Education – Vocational
150.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CNET-195A3 Work Experience Education – Vocational
225.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CNET-195A4 Work Experience Education – Vocational
300.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CNET-365 Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)

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**COMPUTER SCIENCE**

Division: Science, Technology, and Engineering

CS-101 Introduction to Computers and Information Technology
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CNET-101
Advisory: Eligible for ENGL-151B and ENGL-163; concurrent enrollment in CS-101L
Accepted For Credit: CSU & UC
This course is an introduction to computer technology and is designed for all students. This survey course will examine a broad overview of topics including software, hardware, the networking of computer systems, and information technology and surveys of programming languages. The student will explore the implications of this technology with regard to today’s information society. (GC)

CS-101L Computer Applications
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Cross-referenced Course: CAOT-101L
Advisory: CS-101, CNET-101, or equivalent
Accepted For Credit: CSU & UC
This course covers topics in word processing, spreadsheets, database, presentation graphics, information management, and integration of all the above-mentioned programs. (GC)

CS-102 Introduction to Computer Programming Using C++
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-152, MATH-153, or equivalent
Advisory: CS-101, CNET-101, or equivalent
Accepted For Credit: CSU & UC
This course is an introduction to computer programming. Its primary objective is to teach problem solving using the C++ programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. This course is designed primarily for computer science and related transfer majors. (GC)

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2009-2010 OHLONE COLLEGE CATALOG
CS-104A  Introduction to .NET Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: MATH-152 or MATH-153; CS-101, CNET-101, or equivalent  
Accepted For Credit: CSU & UC  
This course covers the skills necessary to create structured Windows Applications. The class uses C# for design and development. Topics covered will include language syntax, event-driven programming, structured programming, most of the standard tools, and user interface strategies. This course is intended for a general audience with no programming experience. (GR)

CS-104B  Advanced .NET Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-104A and CS-122 or equivalent  
Accepted For Credit: CSU & UC  
This is an advanced course for .NET application design and development. Three major areas covered are: Graphical User Interface for Windows applications, ADO.NET and SQL for access to databases, and XML and ASP.NET for web forms and services. The .NET Framework will be used in class for program development. Students may select either C# or Visual Basic.NET to complete projects. (GC)

CS-104C  ASP.NET Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-104A and CS-122  
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 MS SQL server or MS ACCESS, and ADO.NET. Students will design forms, a shopping cart application, automatic email programs, and Web automation by using XML, JavaScript, Visual Basic.NET or C#.NET programming languages. Security and Debugging will also be covered in class. (GC)

CS-104D  Web Services for .NET  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-104A and CS-122  
Accepted For Credit: CSU  
This course is designed to provide students with the knowledge and skills required to develop Extensible Markup Language (XML) Web Services. The course focuses on using Microsoft Visual Studio .NET and Microsoft ASP.NET to enable students to build, deploy, locate, and consume Web services. Repeatable = 2 times (GC)

CS-113  Discrete Mathematics for Computers  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: MATH-163  
Prerequisite: MATH-188 or equivalent  
Advisory: MATH-101A and MATH-101B  
Accepted For Credit: CSU & UC  
This course is designed for majors in mathematics and computer science. It is the first course for students in discrete mathematics. The main goal of this course is to teach students to think abstractly. This requires that students learn to use logically valid different methods of proof including mathematical induction. Topics include logic, proofs, sets, relations, recurrence relations, graphs, trees, and combinations. Applications include Boolean Algebra, logic circuits, O-Notation, and Automata. (GC)

CS-116  Object-Oriented Programming Using C++  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-102 or equivalent course is needed to be successful in this course  
Accepted For Credit: CSU & UC  
This intermediate-level programming course is intended for those students who already have completed an introductory programming course. It presents a comprehensive study of the C++ programming language and its role in object-oriented programming. The C++ language supports input/output streams, class constructs, inheritance, polymorphism, function and operator overloading, function and class templates, and exception handling. (GC)

CS-118  Introduction to Assembly Language Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CS-102  
Accepted For Credit: CSU & UC  
This course is an introduction to Assembly Language for Intel-based computers. Topics include numbering systems, architecture, native machine instructions, memory addressing, subroutines, interrupt handling, file I/O, and interaction between assembly language programs, the operating system, and other languages. (GC)

CS-119  Computer Architecture  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-102, CS-113, CS-118  
Accepted For Credit: CSU  
This course will present the logical design of digital computers. The following topics will be covered: Boolean algebra, combinational and sequential circuits, computer arithmetic, memories, integrated circuits, control processors, input/output. No electronic experience is needed. (GR)

CS-121  Applied Programming in Visual C++  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CS-102  
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. (GC)

CS-122  C#.NET Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-101  
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 this class. The primary objective is to teach the student how to develop C#.NET programs using Windows. 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  Programming With Data Structures  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CS-102  
Advisory: Completion of, or concurrent enrollment in CS-113  
Accepted For Credit: CSU & UC  
This course involves the study and implementation of data structure 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)

CS-125  Introduction to Programming Using Java  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-152  
Advisory: CS-101, CNET-101, or equivalent  
Accepted For Credit: CSU & UC  
This course is an introduction to computer programming. Its primary objective is to teach the fundamentals of programming using the Java programming language. Emphasis will be placed on basic Java programming concepts and skills. This course is designed primarily for computer science and related transfer majors. Repeatable = 2 times (GC)

CS-126  Internet Security Programming  
54.00 hrs lecture, 54.00 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 mechanism including Digital Signature, Public Key Infrastructure (PKI), and Secure Sockets Layer (SSL). Repeatable = 2 times (GC)

CS-130  Systems Analysis  
54.00 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  
54.00 hrs lecture, 54.00 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  
18.00 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  Introduction to SAS Programming  
54.00 hrs lecture  
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 an introduction to the SAS software by using core elements of the SAS system programming language and procedures. (GR)

CS-133A  Data Analysis Using SAS  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: BIOT-133A  
Prerequisite: CS-133 or BIOT-133  
Accepted For Credit: CSU  
This course focuses on the following key areas: statistical inference, analysis of variance, multiple regression, categorical data analysis, and logistic regression. (GC)

CS-136  Advanced Database Programming  
45.00 hrs lecture, 27.00 hrs lab  
Units: 3.00  
Prerequisite: CS-104A and CS-135 or equivalent  
Advisory: CS-104B  
Accepted For Credit: CSU  
This class is designed for the students who wish to develop professional database applications (such as Access) for the business community. Advanced topics such as VBA, DAP, and Active X will be presented. (GC)

CS-137  Introduction to SQL  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-137  
Advisory: CS-101L  
Accepted For Credit: CSU  
This course covers the concepts of relational databases and powerful SQL. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Demonstrations and hands-on practice reinforce the fundamental concepts. (GC)

CS-137B  PL/SQL Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CS-137 or CNET-137  
Accepted For Credit: CSU  
Students learn to program in PL/SQL and understand the use of this programming language. Students learn to create PL/SQL blocks of application code that can be used by forms and reports. Students learn to create procedures, functions, packages, to manage dependencies, to manipulate large objects, and build-in packages. Repeatable = 2 times (GC)

CS-139  Data Mining  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This is an introductory course in Data Mining. Data Mining is an information extraction activity whose goal is to discover hidden facts contained in databases. Topics covered include data mining fundamentals, process models, applications, data warehouse, neural networks, and statistical techniques. (GC)
CS-141B  SAS Graphing and ODS  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Cross-referenced Course: BIOT-141B  
Advisory: CS-133 or BIOT-133  
Accepted For Credit: CSU  
This course introduces SAS/GRAPH and ODS. Learn how to design, construct, and display customized graphs quickly and efficiently. Learn how to create a data set from the results of most SAS procedures and build custom reports. Repeatable = 1 time (GC)  

CS-143  Advanced SAS Programming  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: BIOT-143  
Advisory: BIOT-133-CS-133 or some experience in SAS programming  
Accepted For Credit: CSU  
This course provides students with a basic understanding of macro programming and SQL procedure in SAS software. SQL and macro programming can provide more flexibility and power in data management and data analysis. (GR)  

CS-145  PHP Programming with MySQL  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-145  
Accepted For Credit: CSU  
This is a programming class teaching the student how to access a relational database (MySQL) and generate web pages using PHP. The student does not need prior programming experience but general computer knowledge is recommended. (GC)  

CS-146  Introduction to UNIX/Linux  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Cross-referenced Course: CNET-146  
Advisory: CNET-150  
Accepted For Credit: CSU  
This lecture-lab course introduces functions of and features of UNIX/Linux operating system, including origin and evolution, hardware and software, graphical user interface, files and file system structure, system services, processes, background processing, scheduling, file security, editors, file sharing, and redirection and piping. Students are introduced to networking and internetworking, internet, shell programming, and a variety of UNIX/Linux tools commonly used for software development and system administration in a UNIX/Linux environment. Repeatable = 3 times (GC)  

CS-147  UNIX/Linux Shell Scripting  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-147  
Advisory: CS-102  
Accepted For Credit: CSU & UC  
This hands-on course introduces a variety of tools and concepts used for working with a UNIX/Linux-based computer system. The course will present the concept of a shell and describe differences between Bourne, Berkeley C, Korn, and Bash 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. Repeatable = 3 times (GC)  

CS-149  PERL Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-149  
Advisory: CS-102  
Accepted For Credit: CSU & UC  
This course presents the fundamental knowledge and skills needed to solve problems using PERL or Python language. These languages are particularly well suited to manipulating textual data and are a favorite among UNIX system administrators for automating common administrative tasks and widespread among web masters for writing CGI applications. (GC)  

CS-151  Internet for Research  
9.00 hrs lecture  
Units: 0.50  
Cross-referenced Course: LS-151  
Advisory: CAOT-153 or equivalent  
Accepted For Credit: CSU  
This course presents instruction in the use of the Internet as an alternate to traditional college-level learning resources. It will teach skills and strategies for finding and retrieving information on the Internet. This course is normally offered in a short-term format. (CR)  

CS-152  Data Communications  
36.00 hrs lecture  
Units: 2.00  
Cross-referenced Course: CNET-152  
Accepted For Credit: CSU  
This course is an introduction to data communications. It will include Internet, e-mail, modems, communication protocol, local area networks, wide area networks, network design, and management. (GC)  

CS-157  TCP/IP and Internetworking  
54.00 hrs lecture  
Units: 4.00  
Cross-referenced Course: CNET-157  
Prerequisite: CS-152, CNET-152, or equivalent  
Advisory: CS-101, CNET-101, or equivalent  
Accepted For Credit: CSU  
This course provides an introduction and overview of TCP/IP technology. Topics include TCP/IP concepts, protocol architecture, and installation techniques. It prepares the student to pass the certification exam, Internetworking Microsoft TCP/IP, to become an MCP/MCSE. Repeatable = 3 times (GR)  

CS-160A  Computer Graphics I  
54.00 hrs lecture, 162.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160A, BA-160A, GA-160A  
Advisory: ART-104A  
Accepted For Credit: CSU & UC  
This course is an introduction to microcomputers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. Repeatable = 3 times (GC)
CS-160B  Computer Graphics II  
54.00 hrs lecture, 162.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160B, BA-160B, GA-160B  
Prerequisite: GA, ART, BA, or CS-160A or equivalent  
Accepted For Credit: CSU  
This course is a continuation of 160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. The students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 3 times (GC)  

CS-162  XHTML  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Cross-referenced Course: MM-162  
Advisory: CS-101, CNET-101, or CS-101L  
Accepted For Credit: CSU  
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)  

CS-164  Introduction to FrontPage  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Cross-referenced Course: CAOT-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. This course is normally offered in a short-term format. Repeatable = 1 time (GC)  

CS-169A  Digital Photography  
18.00 hrs lecture, 126.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ART-139A, GA-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 navigate the application, build files, use several tools for manipulating images, and ultimately gain command of reproducing photographic images using alpha channels, layers, and filters. Repeatable = 1 time (GR)  

CS-169B  Intermediate Digital Photography  
18.00 hrs lecture, 126.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ART-139B, GA-169B  
Prerequisite: ART-139A, CS/GA-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)  

CS-170  Java Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-102 and CS-125  
Accepted For Credit: CSU & UC  
This intermediate-level programming course is intended for those students who already have completed an introductory programming course. It presents a comprehensive study of the object-oriented programming in Java. Fundamentals of encapsulation, inheritance, polymorphism, abstraction, method overloading and overriding, exception handling, GUI components, event handling, multimedia programming, and input/output streams are introduced. Repeatable = 2 times (GC)  

CS-172  Servlets and JSP  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-170  
This is an Internet programming and application course using Java technology, including Servlet, JSP, Session tracking, JavaBeans, and JDBC. Repeatable = 2 times (GC)  

CS-173  Java EE and EJB  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-170 or equivalent  
This course is an introduction to Java EE and EJB (Enterprise Java Beans). Students will design and develop the business applications and Web Services using Java EE and EJB. (GR)  

CS-175  Script Technology for Web Development  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
This is an introductory to intermediate course for the scripting language JavaScript, the glue between Web interactivity tools. The topics span from basic programming concepts to specific JavaScript syntax and methods used to manipulate information and code, which allow web forms validation, rewriting of HTML pages on the fly, and access to XML and other server information. (GC)  

CS-176  Introduction to PERL CGI Programming Development  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
This course is an introduction to CGI (Common Gateway Interface) programming with PERL. The primary objective is to teach how to create interactive Web pages using CGI. Students will learn the fundamental concepts of CGI, the basics of design and integration with HTML, and sufficient PERL to be able to create CGI programs. (GC)  

CS-177  E-Commerce  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: CAOT-153  
Advisory: CS-156 and CS-176  
This course is designed to teach students the technologies and models for deploying electronic commerce. Students will learn about the Secure Socket Layer (SSL), Site certificates, verifying authorities, and transaction mechanisms. Students will develop an electronic storefront; build shopping carts, databases, checkout stands; and administer an E-Commerce site. Included is special focus on security and social issues. Repeatable = 1 time (GC)
CS-177  E-Commerce  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
This course is designed to provide complete coverage of key business and technology elements of electronic commerce with emphasis on both the theory and practices of conducting business over the Internet. Students will integrate business and technology elements by developing and administering their own E-Commerce website. Repeatable = 1 time (GC)

CS-178  XML  
54.00 hrs lecture  
Units: 3.00  
Advisory: CS-170  
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 Symantics and Specification Language). Repeatable = 1 time (GC)

CS-179  Dynamic Web with ColdFusion  
54.00 hrs lecture  
Units: 3.00  
Advisory: CS-156 or CS-162  
Learn to use ColdFusion, one of the most efficient web development applications, to create database driven websites. There is no cost to install ColdFusion Server and other necessary software on a computer. Prior HTML knowledge is helpful as ColdFusion CFML code is imbedded in webpages and forms source code. Use MySQL, Oracle, or other relational databases. (GC)

CS-195A1  Work Experience Education – Vocational  
75.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CS-195A2  Work Experience Education – Vocational  
150.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CS-195A3  Work Experience Education – Vocational  
225.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CS-195A4  Work Experience Education – Vocational  
300.00 hrs lab  
Units: 4.00  
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  
90.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

CONSUMER FAMILY SCIENCES

Division: Health Sciences and Environmental Studies

CFS-100  Introduction to Nutrition  
36.00 hrs lecture  
Units: 2.00  
This course covers the principles of good nutrition and their application to all stages of human development. Focus is on the physiological need for food and the promotion of good eating practices as they relate to optimum body function. The importance of psychological and social aspects of eating at each developmental level is discussed. Nutrition myths and misinformation are explored and evaluated. (GC)

CFS-104A  Current Issues in Child Nutrition  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: 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  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This course reviews in depth the relationship between the nutrients and muscular performance. Food sources and meal plans for optimum performance, fitness, weight maintenance, weight loss, and weight gain are explored. The need for supplements and popular diets are evaluated. (GC)

CFS-109  Nutrition  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course studies the concepts and applications of nutrition in health and disease. Essential nutrients and their functions, food sources, requirements, digestion, absorption, and metabolism are covered. This course is recommended for pre-nursing and other health majors. (GC)

CFS-112  Nutrition in Health and Disease  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: CFS-109 or equivalent  
This course examines in depth the nutritional aspects of health and disease. It covers the principles of a dietary modification necessitated by various diseases, disorders, and special circumstances such as pregnancy, growth, development, diabetes, cancer, and aging. It is recommended for the health professions and the food service industry as well as for general interest. (GC)

CFS-195A1  Work Experience Education – Vocational  
75.00 hrs lab  
Units: 1.00  
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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Hours</th>
<th>Acceptance</th>
<th>Advisory</th>
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</thead>
<tbody>
<tr>
<td>CFS-195A2</td>
<td>Work Experience Education – Vocational</td>
<td>2.00</td>
<td>150.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<td>CFS-195A3</td>
<td>Work Experience Education – Vocational</td>
<td>3.00</td>
<td>225.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<tr>
<td>CFS-195A4</td>
<td>Work Experience Education – Vocational</td>
<td>4.00</td>
<td>300.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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**DEAF PREPARATORY PROGRAM**

Division: Deaf Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Hours</th>
<th>Acceptance</th>
<th>Advisory</th>
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<tbody>
<tr>
<td>DEAF-110A</td>
<td>Introduction to English as a Second Language</td>
<td>4.00</td>
<td>72.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<td></td>
<td>in American Sign Language</td>
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<td></td>
<td>This course introduces basic English skills, emphasizing reading comprehension, writing, and communication using American Sign Language. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-110B</td>
<td>Developing English as a Second Language</td>
<td>4.00</td>
<td>72.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<td></td>
<td>in American Sign Language</td>
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<td>This course encourages the development of basic English skills emphasizing reading comprehension, writing, and communication using American Sign Language. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-116A</td>
<td>ESL Vocabulary I in American Sign Language</td>
<td>2.00</td>
<td>36.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<td>This course is the first of two basic vocabulary courses designed for students who are new to the United States or who wish to build their English vocabulary skills. Students will strengthen their understanding of words through thematic reading and interactive exercises, by studying word parts, synonyms and antonyms, and by analyzing their meanings in various written contexts. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GC)</td>
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<td>DEAF-116B</td>
<td>ESL Vocabulary II in American Sign Language</td>
<td>2.00</td>
<td>36.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<td>This course is the second in two basic vocabulary courses designed for students who are new to the United States or who wish to build their English vocabulary skills. Students will strengthen their understanding of words through thematic reading and interactive exercises, by studying word parts, synonyms and antonyms, and by analyzing their meanings in various written contexts. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GC)</td>
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<td>DEAF-118A</td>
<td>ESL Writing I in American Sign Language</td>
<td>3.00</td>
<td>54.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<td>This course introduces basic writing skills, emphasizing the structure of English sentences and paragraph development. It is designed for students whose native language is not English. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GC)</td>
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<tr>
<td>DEAF-118B</td>
<td>ESL Writing II in American Sign Language</td>
<td>3.00</td>
<td>54.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<td>The second course of a two-semester ESL writing program for Deaf students. This course further develops basic writing skills, emphasizing the structure of English sentences and paragraph development. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GC)</td>
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<tr>
<td>DEAF-119A</td>
<td>ESL Reading I in American Sign Language</td>
<td>3.00</td>
<td>54.00</td>
<td>CSU</td>
<td>Basic ability to communicate in ASL</td>
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<td>The first course of a two-semester ESL reading program for Deaf students. This course is designed for students who are new to the United States or who wish to begin a basic study of English reading at a beginning ESL level, with an emphasis on fluency and vocabulary development. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GC)</td>
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<tr>
<td>DEAF-119B</td>
<td>ESL Reading II in American Sign Language</td>
<td>3.00</td>
<td>54.00</td>
<td>CSU</td>
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<td>The second course of a two-semester ESL reading program for Deaf students. This course is designed for students who are new to the United States or who wish to continue a basic study of English reading at a beginning ESL level, with an emphasis on fluency and vocabulary development. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GC)</td>
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<td>DEAF-120A</td>
<td>Basic Grammar I</td>
<td>3.00</td>
<td>54.00</td>
<td>CSU</td>
<td>Fluency in ASL</td>
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<td>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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GC)</td>
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</table>
DEAF-120A Intermediate Literacy I
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-120A
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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

DEAF-121A Intermediate Grammar I
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-120A and DEAF-120B
This course is the first of two courses designed for Deaf/Hard of Hearing students who wish to further develop their grammar skills through practice and application. They will have opportunities to apply grammar rules through interactive exercises, studying sentence parts, and writing sentences. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

DEAF-121B Intermediate Grammar II
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-121A
This course is designed for Deaf/Hard of Hearing students who wish to continue to develop their grammar skills through practice and application. They will have opportunities to apply grammar rules through interactive exercises, studying sentence parts, and writing sentences. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

DEAF-130A Literacy I
54.00 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 Deaf and HOH students. The emphasis is on increased practical reading skills and vocabulary. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GC)

DEAF-130B Literacy II
54.00 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 Deaf and HOH students. This course is taught in ASL only. The emphasis is on increased practical reading skills and vocabulary. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GC)

DEAF-131A Intermediate Literacy I
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-130A/B; DEAF-120A/B
This course is the first of two courses designed for Deaf/HOH students who wish to increase vocabulary and expand knowledge about various topics related to the world we live in. It will also promote practice in reading. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

DEAF-131B Intermediate Literacy II
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-130A/B; DEAF-120A/B
This course is the second of two courses designed for Deaf and HOH students who wish to further increase vocabulary and knowledge about various topics related to real world. It will also promote practice in reading. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

DEAF-140A Lifeskills Mathematics I
36.00 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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

DEAF-140B Lifeskills Mathematics II
36.00 hrs lecture
Units: 2.00
Advisory: DEAF-140A; Fluency in ASL
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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

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

DEAF-141B Workplace Communication II
54.00 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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

DEAF-143 Deaf Vocational Awareness
18.00 hrs lecture, 54.00 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 informational interviewing skills using an interpreter for communication purposes to gather facts about work requirements, job duties, application procedures, and employment protocol. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture</th>
<th>Lab</th>
<th>Advisory Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-145A</td>
<td>Deaf Vocational Planning</td>
<td>3.00</td>
<td>54.00</td>
<td>54.00</td>
<td>DEAF-143; ASL Fluency</td>
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<td>This course allows student job seekers to evaluate their own interests and skills necessary for a successful job hunt to result in gainful employment. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-145B</td>
<td>Job Seeking Strategies for Deaf Students</td>
<td>3.00</td>
<td>54.00</td>
<td>54.00</td>
<td>ASL Fluency</td>
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<td>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 and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
</tr>
<tr>
<td>DEAF-146</td>
<td>Work Experience Seminar</td>
<td>2.00</td>
<td>36.00</td>
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<td>DEAF-195; ASL Fluency</td>
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<td>Designed for students to get training while having their work experience class at Ohlone College. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-147A</td>
<td>Citizenship: Introduction</td>
<td>3.00</td>
<td>54.00</td>
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<td>This course is the first of four courses designed for Deaf/Hard of Hearing students who need to develop pre-employment readiness. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-147B</td>
<td>Citizenship: One’s Role</td>
<td>3.00</td>
<td>54.00</td>
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<td>DEAF-147A</td>
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<td>This course is the second of four courses in the Direct Employment Program designed for Deaf/Hard of Hearing students who need to develop next level of skills in job readiness. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-148</td>
<td>Community Service</td>
<td>2.00</td>
<td>18.00</td>
<td>54.00</td>
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<td>This course will focus on the concept and experience of community service and provide hands-on-community-based learning experience. The course will introduce the definition and importance of community service and volunteerism, and their importance in career development, and will address safe practices in new environments and using tools. Performance expectations will be applied to community service participation. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-160A</td>
<td>Personal and Social Awareness I</td>
<td>2.00</td>
<td>36.00</td>
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<td>ASL Fluency</td>
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<td>This is a practical course designed to explore issues relevant to Deaf college students. Group activities will focus on personal challenge and growth. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (CR)</td>
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<tr>
<td>DEAF-160B</td>
<td>Personal and Social Awareness II</td>
<td>2.00</td>
<td>36.00</td>
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<td>Prerequisite: Limitation on enrollment: Deaf students only; DEAF-160A</td>
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<td>This is a continuation of DEAF-160A and is designed to explore issues relevant to Deaf college students. Group activities will focus on personal challenge and growth. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (CR)</td>
</tr>
<tr>
<td>DEAF-161</td>
<td>Introduction to the Deaf Community</td>
<td>3.00</td>
<td>54.00</td>
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<td>ASL Fluency</td>
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<td>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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-165</td>
<td>Study Techniques: MS Word, MS Excel, and MS Access</td>
<td>3.00</td>
<td>36.00</td>
<td>54.00</td>
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<td>MS Word, MS Excel, and MS Access</td>
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<td>Introductory use of Microsoft Word, Microsoft Excel, and Microsoft Access to prepare students for college-level work. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-166</td>
<td>Study Techniques: Introduction to Multimedia</td>
<td>3.00</td>
<td>36.00</td>
<td>54.00</td>
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<td>Photoshop, MS PowerPoint, and MS Publisher</td>
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<td>Introductory course in the use of PhotoShop, Microsoft PowerPoint, MS Publisher, and use of digital camera to prepare students for college-level work. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-172B</td>
<td>Strategies for Successful Writing</td>
<td>4.00</td>
<td>72.00</td>
<td></td>
<td>DEAF-172A, DEAF-173B; ASL Fluency</td>
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<td>This 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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
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<tr>
<td>DEAF-173B</td>
<td>Strategies for Successful Reading</td>
<td>3.00</td>
<td>54.00</td>
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<td>DEAF-172B, DEAF-173A; ASL Fluency</td>
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<td>This is a high intermediate reading course with emphasis on the further development of literary study and research skills. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
</tr>
<tr>
<td>DEAF-175</td>
<td>Advanced English Grammar for Mainstreamed Students</td>
<td>3.00</td>
<td>54.00</td>
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<td>ASL fluency; ENGL-151A or higher</td>
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<td>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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)</td>
</tr>
</tbody>
</table>
DEAF-176A Academic Vocabulary I  
36.00 hrs lecture  
Units: 2.00  
Advisory: ASL fluency  
This course is the first of two courses designed for students who wish to improve their vocabulary through exposure to words found in academic coursework. Students will strengthen their understanding of words through thematic reading and interactive exercises, by studying word parts, synonyms, and analogies, and by analyzing their meanings in various written contexts. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GR)

DEAF-176B Academic Vocabulary II  
36.00 hrs lecture  
Units: 2.00  
Advisory: 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. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GR)

DEAF-188A Intensive University Preparation – Academic Writing I  
72.00 hrs lecture  
Units: 4.00  
Advisory: ASL fluency  
This course is the first course in a three-semester program in writing with an emphasis on composition, critical reading skills, and the development of natural English expression. This course reviews the fundamentals of paragraph development and focuses on reading critically and writing well-developed and well-organized paragraphs and essays. The course is designed to prepare students who are fluent in ASL for college-level English composition and academic course work. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GR)

DEAF-188B Intensive University Preparation – Academic Writing II  
72.00 hrs lecture  
Units: 4.00  
Advisory: ASL fluency  
This course is the second course in a three-semester program in writing with an emphasis on composition, critical reading skills, and the development of natural English expression. This course reviews the fundamentals of paragraph development and focuses on reading critically and writing well-developed and well-organized paragraphs and essays. The course is designed to prepare students who are fluent in ASL for college-level English composition and academic course work. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GR)

DEAF-188C Intensive University Preparation – Academic Writing III  
72.00 hrs lecture  
Units: 4.00  
Prerequisite: ASL fluency  
This course is the third course in a three-semester program in writing with an emphasis on composition, critical reading skills, and the development of natural English expression. This course reviews the fundamentals of essay development and focuses on reading critically and writing well-developed and well-organized paragraphs and essays. The course is designed to prepare students who are fluent in ASL for college-level English composition and academic course work. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GR)

DEAF-189A Intensive University Preparation – Academic Reading I  
54.00 hrs lecture  
Units: 3.00  
Advisory: ASL fluency  
This course is the first course of a three-semester academic reading program. This course provides an introduction to reading and study techniques. Students learn to analyze, annotate, and summarize a variety of readings including essays, news articles, and textbook chapters. The course is designed to prepare students for college-level course work. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GR)

DEAF-189B Intensive University Preparation – Academic Reading II  
54.00 hrs lecture  
Units: 3.00  
Advisory: ASL fluency  
DEAF 189B is the second course of a three-semester reading program. This course focuses on improvement of reading and study skills. Students analyze, annotate, and summarize readings of greater length and complexity. The course is designed to prepare students for college-level course work. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GR)

DEAF-189C Intensive University Preparation – Academic Reading III  
54.00 hrs lecture  
Units: 3.00  
Advisory: ASL fluency  
DEAF 189C is the third course of a three-semester reading program. This course focuses on strengthening of reading and research skills. Students analyze, annotate, and summarize readings of increasing length and complexity. The course is designed to prepare students for college-level course work. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 3 times (GR)

DEAF-191 Human Potential Seminar  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: Limitation on enrollment: Deaf students only  
This practical course is specifically designed to meet the personal growth needs of Deaf students finding their place as Deaf adults in a hearing society. Emphasis will be on issues encountered in everyday life. Group and individual activities will encourage self-exploration and awareness, values clarification, conscious choice, decision making, and interpersonal communication. The course is taught in ASL and is not applicable to the associate degree. Repeatable = 5 times (GR)

DEAF-195A2 Work Experience Education – Vocational  
150.00 hrs lab  
Units: 2.00  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. Repeatable = 5 times (GC)

DEAF-195A3 Work Experience Education – Vocational  
225.00 hrs lab  
Units: 3.00  
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  
300.00 hrs lab  
Units: 4.00  
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**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, 163; fluency in ASL
Accepted For Credit: CSU
This course is taught in ASL. Repeatable = 5 times (GC)

**DEAF-330 Educating the Deaf**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This course is taught in ASL. Repeatable = 5 times (GR)

**DEAF-331 Counseling the Deaf**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
This course is designed to provide Deaf Education 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)

**DEAF-332 Development of the Deaf Child**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This course provides students with an overview of child development theories as they relate to the Deaf experience. The course is taught in ASL. Repeatable = 5 times (GR)

**DEAF-343 Field Work in Deaf Education**
162.00 hrs lab
Units: 3.00
Prerequisite: Enrollment in the Deaf Education Certification Program
Advisory: Eligible for ENGL-151B, ENGL-163
This course is designed to provide Deaf Education students with hands-on experience in a deaf school setting. A weekly seminar is included for group discussion of practicum experience. The course is taught in ASL. Repeatable = 5 times (GR)

**DEAF-365 Supervised Tutoring**
180.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course is taught in ASL. Repeatable = 5 times (GC)

### EARLY CHILDHOOD STUDIES
Division: Humanities, Social Sciences, and Mathematics

**ECS-195A2 Work Experience Education – Vocational**
150.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

**ECS-195A3 Work Experience Education – Vocational**
225.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Work to a major. Units are based on hours worked. (GC)

**ECS-195A4 Work Experience Education – Vocational**
300.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

**ECS-300 Principles and Practices of Teaching Young Children**
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
An introduction to the social, cultural, and sociolinguistic characteristics of Deaf people. The course is taught in ASL. Repeatable = 5 times (GR)

**ECS-301 Childhood Growth and Development**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A; ECS-300 and ECS-304
Accepted For Credit: CSU & UC
This course is an overview of the application of principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. (GR)

**ECS-302 Introduction to Curriculum**
72.00 hrs lecture
Units: 4.00
Advisory: Eligible for ENGL-101A; ECS-300, ECS-301, and ECS-304
Accepted For Credit: CSU
This course is an overview of the application of principles of human growth and development to individual issues in early childhood educational programs including appropriate play, aesthetic and learning experiences including program content, use of materials and equipment, planning and guidance of assessment and documentation. (GR)
**ECS-303 Child, Family, and Community**

54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A; ECS-300 or ECS-301  
Accepted For Credit: CSU  

This course examines family living patterns and lifestyles in today’s society. The diversity of family composition and interactions of family members and the factors affecting family life, child-rearing practices, family-school-community relationships and partnerships. Resources available within the school and community, as well as social services, health service, and recreational facilities within the community are explored. (GR)

**ECS-304 Observation and Assessment of Children**

54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-101A; ECS-300, ECS-301  
Accepted For Credit: CSU  

This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning to join with families and professionals in promoting children’s success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. (GR)

**ECS-305 Health, Safety, and Nutrition**

54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A; ECS-300  
Accepted For Credit: CSU  

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. (GR)

**ECS-306 Guidance and Discipline of Young Children**

54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  

The principles of positive guidance and discipline based on contemporary research and child development will be discussed in this course. Application of the principles of effective communication, understanding child development and behavior, appropriate limits and rules, structuring problem solving, and consequences will be discussed. This course is appropriate for teachers and parents. (GC)

**ECS-307A4 Practicum – Field Experience**

36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-101A; ECS-300; ECS-302  

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. (GR)

**ECS-307B4 Intermediate Practicum – Field Work**

36.00 hrs lecture, 108.00 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 Lab. Students will perform the competencies of a head teacher/site director. (GR)

**ECS-307C4 Advanced Practicum – Field Work**

36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Prerequisite: ECS-307B3, ECS-307B4, or ECS-307B5  
Advisory: ENGL-101A; ECS-300  

This course 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 a head teacher/site director. (GR)

**ECS-308 Administration of Programs for Young Children**

54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A, ECS-300, ECS-301, ECS-302  
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. (GR)

**ECS-309 Teaching in a Diverse Society**

54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  

An examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms, and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches to supporting all children in becoming competent members of a diverse society. The course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media, and schooling.(GR)

**Music and Movement Curriculum for Young Children**

54.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300 or ECS-301; ECS-302  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  

This course provides a survey of music, materials, and movement activities for young children (2-10 years). Students learn effective techniques for using songs, rhythm, instruments, creative dance, and games. The use of a variety of musical media and props will be demonstrated. (GR)
ECS-311  Art for the Young Child  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300 or ECS-301; ECS-302  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course includes practice in using age-appropriate methods with commonly available creative art media for children of various developmental stages, infancy through eight years old. Students learn to make, collect, and use various materials to develop an understanding of how art expression and skills change as children mature. Evaluation and appreciation of art activities as opportunities for self-expression and sensory stimulation will be explored. (GR)

ECS-312  The Development of Literacy in Early Childhood Education  
54.00 hrs lecture  
Units: 3.00  
Advisory: 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  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300 or ECS-301; ECS-302  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course provides guidelines for preparing curriculum centering on science and environmental studies. Math and science interrelationships will be explored as well as gender differences, current research, and the use of hands-on approach. (GR)

ECS-314  Literature for the Young Child  
54.00 hrs lecture  
Units: 3.00  
Advisory: 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, 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  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
The course focuses on recognizing and distinguishing the variety of special needs exhibited by children 0-12 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  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: ECS-301  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
Students will study infant and toddlers’ physical growth, social adjustment, and the psychological and social roots from which children develop. Students practice planning environments and equipment selection, health, safety, caregiving routines, and communication skills in group settings; working with infants and toddlers. (GR)

ECS-319  Work Experience Seminar  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: ECS-300 and ECS-301  
This course will be a discussion and analysis of problems encountered on the job. Legal issues, case studies, and principles of participation in on-the-job training in early childhood programs will be discussed. (GC)

ECS-320  Introduction to Family Child Care Homes  
18.00 hrs lecture  
Units: 1.00  
This course will cover the operation of child care in a home setting. Topics will include home setup, business practices and policies, program planning, parent relations, and communications. California licensing regulations will be covered. (CR)

ECS-321  Supervision in Early Childhood Programs  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300, ECS-301, and ECS-303  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course covers group dynamics, supervision of staff and parents, development of motivation and morale, leadership skills, and functions of personnel. It includes interviews, interpersonal and group conflict resolution, staff evaluations, and working with parents and boards. It is designed to provide knowledge and methods for those working in supervisory capacities in early childhood programs. (GR)

ECS-322  Mentoring and Supervision in Early Childhood Programs  
36.00 hrs lecture  
Units: 2.00  
Advisory: ECS-302, ECS-308, ENGL-101A  
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. (GR)

ECS-323  Advanced Training in Infant-Toddler Care  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300, ECS-301, ECS-317  
Accepted For Credit: CSU  
Advanced ECS students will study infant/toddler growth and development in all domains. Specific consideration will be given to planning environments, recognizing and diagnosing delays, relationships with parents, effect of nurturing, and the group setting on very young children. (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>ECS-324</td>
<td>Parenting</td>
<td>3.00</td>
<td>54.00</td>
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<td>Advisory: Eligible for ENGL-151B; Accepted For Credit: CSU</td>
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<tr>
<td>ECS-325A</td>
<td>Workshop Series for Parents and Teachers</td>
<td>0.50</td>
<td>9.00</td>
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<td>This course is a workshop for parents and teachers covering specific topics</td>
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<td>in the field of Early Childhood Studies. The theme and content varies and is</td>
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<td>determined by the Early Childhood Studies instructors. Repeatable = 3 times</td>
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<td>or 4 units (GR)</td>
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<td>ECS-326A</td>
<td>Parent Participation</td>
<td>1.00</td>
<td>9.00</td>
<td>27.00</td>
<td>Corequisite: Enrollment of child in Ohlone College Children's Programs</td>
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<td>Presented in this course are a variety of topics which deal with the</td>
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<td>physical, emotional, social, and intellectual development of the young</td>
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<td>child and ways in which parents can be involved in the learning process.</td>
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<td>Participation in the Child Development programs is required. This course is</td>
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<td>required of parents of children in the Ohlone Child Development Programs.</td>
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<td>Repeatable = 3 times (CR)</td>
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<tr>
<td>ECS-326B</td>
<td>Parent Participation</td>
<td>1.00</td>
<td>9.00</td>
<td>27.00</td>
<td>Prerequisite: Completion of 4 units of ECS-326A; Corequisite: Enrollment</td>
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<td>of child in Ohlone College Children's Programs</td>
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<td>In this course parents will continue their participation in the children's</td>
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<td>programs. Exploration and enhancement of specific parenting skills will be</td>
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<td>facilitated. Participation in the Ohlone Child Development Programs is</td>
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<td>required. This course is for returning parents of children who have been</td>
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<td>enrolled in ECS-326A for at least four previous semesters. Repeatable = 3</td>
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<td>times (CR)</td>
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<tr>
<td>ECS-326C</td>
<td>Advanced Parent Participation</td>
<td>1.00</td>
<td>9.00</td>
<td>27.00</td>
<td>Prerequisite: Completion of 4 units of ECS-326B; Corequisite: Enrollment</td>
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<td>of child in Ohlone College Children's Programs</td>
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<td>In this course parents play a greater role in the planning and implementation</td>
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<td>of their children's preschool experience. Under the direction of the</td>
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<td>instructor and children's teachers, parents share skills and information</td>
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<td>with ECS-326A and ECS-326B students. Participation in the Ohlone College</td>
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<td>Child Development Programs is required. This course is for returning</td>
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<td>parents of children who have been enrolled in ECS-326B for at least four</td>
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<td>previous semesters. Repeatable = 3 times (CR)</td>
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<td>ECS-327</td>
<td>School Age Child Development</td>
<td>3.00</td>
<td>54.00</td>
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<td>Advisory: Eligible for ENGL-151A; Accepted For Credit: CSU</td>
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<td>This course is the study of the developing child during the school-age</td>
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<td>years. It focuses on the developmental characteristics; influences on</td>
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<td>development; individual differences; physical, social-emotional, cognitive,</td>
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<td>and creative development. It examines the role of the teacher in programs</td>
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<td>designed for the school-age child. (GR)</td>
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<td>ECS-328</td>
<td>Curriculum for the School Age Child</td>
<td>3.00</td>
<td>54.00</td>
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<td>Advisory: ECS-301, ECS-302; eligible for ENGL-101A; Accepted For Credit:</td>
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<td>This course studies the fundamentals of planning, implementing, and</td>
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<td>evaluating curriculum for programs serving school-age children and their</td>
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<td>families. The emphasis is on developing and providing appropriate activities,</td>
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<td>environment, and relationships in the context of an integrated and active</td>
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<td>curriculum. (GR)</td>
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<td>ECS-329</td>
<td>Early Childhood Director's Seminar</td>
<td>2.00</td>
<td>36.00</td>
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<td>Prerequisite: ECS Certificate of Achievement; Advisory: Current employment</td>
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<td>as Director/Administrator; Accepted For Credit: CSU</td>
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<td>This course provides ongoing professional support, information, and</td>
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<td>resources for students who are currently administering Early Childhood</td>
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<td>Programs. A combination of dialogue, professional guest speakers, exposure</td>
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<td>to community resources, network building activities, current information on</td>
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<td>research, trends, and issues of the field will contribute to the student's</td>
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<td>competence, performance, and effectiveness in his/her supervisor role.</td>
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<td>Repeatable = 3 times (GC)</td>
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<td>ECS-330</td>
<td>Second Helping for Family Childcare Providers</td>
<td>2.00</td>
<td>36.00</td>
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<td>Prerequisite: ECS-320, 18 months experience in a licensed program; This</td>
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<td>course is the second course for Family Child Care Providers. It covers the</td>
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<td>role of the provider, the task of managing, relationships between caregivers</td>
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<td>and parents, and providing environments for children. Repeatable = 1 time</td>
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<td>(GC)</td>
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</table>

## EDUCATION
Division: Humanities, Social Science, and Mathematics

**EDUC-101 Exploring Education**
Prerequisite: ENGL-151B; Accepted For Credit: CSU & UC
This course will introduce students to the field of teaching. The class will include reports and discussions related to direct observations of pre-school, elementary, secondary, higher education, and non-school educational settings. Changing issues in education and their implications for future teaching practices and theories will be examined. (GR)
**EDUC-105**  
Math and Science Future Teacher Seminar  
54.00 hrs lecture  
Units: 3.00  
Advisory: MATH-151; ENGL-101A  
Accepted For Credit: CSU  
This course is designed to provide students pursuing a career in secondary school math or science teaching with theory and hands-on experience working with children in math and science skills at a local elementary or secondary school. This course includes work with mathematics and science material, assessment, methodology, and the school environment. The course includes 50 hours of on-site field experience, as a service learning component, in a local elementary school. (GC)

**EDUC-191A**  
Tutor Training Part I  
9.00 hrs lecture  
Units: 0.50  
Corequisite: Employment as a tutor at Ohlone College for at least 25 hours  
This course covers effective methods for tutoring. The do's and don'ts of tutoring, study skills, and questioning techniques are a few of the topics covered. Students enrolling in this course must be concurrently employed as a tutor at Ohlone College. CRLA has approved this course for certification, and students who receive CRLA certification are qualified to tutor at any of the over 500 colleges in the U.S. and Canada that have CRLA programs. Repeatable = 1 time (CR)

**EDUC-191B**  
Tutor Training Part II  
9.00 hrs lecture  
Units: 0.50  
Corequisite: Employment as a tutor at Ohlone College for at least 25 hours  
This course continues on from Part I with additional effective methods of tutoring. Learning styles, structuring the learning experience, handling challenging situations, and being inventive are among the topics covered. Students enrolling in this course must be concurrently employed as a tutor at Ohlone College. Leads to CRLA certification. Repeatable = 1 time (CR)

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**ENGI-114**  
How Technology Works  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-114  
Accepted For Credit: CSU  
This course is intended for students of all disciplines who are interested in how everyday things work. It is an introduction to some of the fundamental science concepts underpinning high technology, emphasizing everyday devices and practical experience, for the development of scientific and computer literacy. Students will experiment with technology to discover principles of science. Concepts such as force, work, energy, power, liquids and gasses, heat transfer, electricity, magnetism, electronics, light, materials science, and time are explored through experimentation and observation. Students will experience the class demonstrations and hands-on laboratories the concepts presented by the instructor. Phenomena such as how computers convert data, how iPods transmit sound, how electronic thermometers measure temperature, how solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)

**ENGI-115**  
Engineering Graphics and Design  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-151B and MATH-151  
Accepted For Credit: CSU & UC  
This course covers the principles of graphic expression by means of technical sketching and computer aided drafting. (GR)

**ENGI-120**  
Engineering Mechanics – Statics  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: PHYS-140 and MATH-101B  
Accepted For Credit: CSU & UC  
This course is a study of force systems and equilibrium in two and three dimensional structures, distributed forces, friction, and virtual work. (GR)

**ENGI-130**  
Electric Circuit Analysis  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-101B, PHYS-141  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course is a study of DC and AC linear circuits and transient and steady state analysis. Experimental techniques, instrumentation, and circuit simulation will be covered in the lab. (GR)

**ENGI-131D**  
Review of Engineering Concepts  
18.00 hrs lecture  
Units: 1.00  
This course is designed to review course content in selected engineering course(s). This course introduces study techniques, problem solving techniques, and more in-depth discussions of engineering principles and applications in selected courses. Repeatable = 3 times (CR)

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**ENGINEERING**  
Division: Science, Technology, and Engineering

**ENGI-101**  
Introduction to Engineering  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course examines the engineering career: requirements, ethics, salaries, organization, management, registration, and degree planning. (GC)

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Photo courtesy of College Advancement.
ENGI-135 Introduction to Robotics and Automated Systems
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CNET-115
Accepted For Credit: CSU

Students who take this class will understand how scientific innovation can affect their lives either directly or indirectly. The class will teach students the principles of scientific methodology as it is applied to solving problems. The application of this scientific method will be used to navigate an abundance of technical information — to obtain the information, to understand the information, and to determine how to apply it. This course describes the functional hardware and software components of Automated Systems. The student will experience how scientific principles are applied by building and programming robots. The emphasis is for students to learn science by actually doing science. Repeatable = 3 times (GC)

ENGI-140 Materials Engineering
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CHEM-101A with grade of C or better, PHYS-140 with grade of C or better
Accepted For Credit: CSU & UC

This course covers atomic and crystal structures; imperfections; diffusion and relation between microstructure; 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)

ENGI-195A1 Work Experience Education – Vocational
75.00 hrs lab
Units: 1.00
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
150.00 hrs lab
Units: 2.00
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
225.00 hrs lab
Units: 3.00
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
300.00 hrs lab
Units: 4.00
Accepted For Credit: CSU

Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

ENGI-365 Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral

This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

ENGLISH

ENGL-101A Reading and Written Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ENGL-151B and ENGL-163 with a grade of C or better
Accepted For Credit: CSU & UC

This course focuses on reading and writing of expository and argumentative works and introduction to research skills and documentation to develop students’ ability to think critically and advocate ideas forcefully and accurately. Students will increase practical fluency by developing sentence, paragraph, thesis, and essay writing skills. (GR)

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

Students will read and evaluate literature in a critical, logical way. The emphasis will be upon critical analysis of literary works (novels, short story, poetry, and drama) and upon the students’ development of an appreciation of literature. (GR)

ENGL-101C Critical Thinking and Composition
54.00 hrs lecture
Units: 3.00
Prerequisite: Completion of ENGL-101A with a grade of C or better
Accepted For Credit: CSU & UC

Students will learn critical thinking skills and use them to read and evaluate essays in a precise, logical way. The emphasis will be upon critical analysis and upon the students’ development of effective, written arguments. (GR)
ENGL-104 The Short Story  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & 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-105B English Literature: From Romanticism to Modernism  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A  
Accepted For Credit: CSU & UC  
The course encompasses several revolutions in style and sensibility that have shaped English literature from Romantic nature poets like Wordsworth, Keats, and Shelley to Modernist writers like James Joyce, Virginia Woolf, and T.S. Eliot. (GR)

ENGL-106 Censorship and Literature  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: JOUR-106  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & 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  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & 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-108 Writing Short Fiction  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A  
Accepted For Credit: CSU & UC  
This course will review the fundamentals of fiction writing, provide an in-depth study of intermediate short fiction writing techniques, and offer exercises designed to stimulate creativity. (GR)

ENGL-109 The Graphic Novel  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course presents graphic novels and related literature genres by and about characters from various ethnic, cultural, socioeconomic, historical, and geo-political backgrounds. These graphic novels will be analyzed with a focus on language, art, design, ideology, substance, and content in order to explore the genre of the graphic novel as an art form and literary form as well as to recognize the undercurrent of themes running through this form of literature. Studying the artists’ works and examining the historical, social, psychological, and cultural forces shaping the literary and artistic form of the graphic novel will allow students to become aware of this genre of literature as a unique contribution to the study of literature and art. (GC)

ENGL-111A Beginning Creative Writing  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A  
Accepted For Credit: CSU & UC  
This course includes experimentation with creative principles such as fiction, non-fiction, drama, and poetry, and a critical analysis of the student’s work. (GC)

ENGL-111B Intermediate Creative Writing  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-111A  
Accepted For Credit: CSU & UC  
This course provides the opportunity to experiment with creative principles such as fiction, non-fiction, drama, and poetry, and a critical analysis of student’s work. (GC)

ENGL-112 Modern Fiction  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & 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, Franz Kafka, and others. (GC)

ENGL-113 Poetry  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & 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)

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

ENGL-115 Women in Literature  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: WS-115  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Students will read, discuss, and write about short stories, novels, poetry, drama, and essays by and about characters from various ethnic, cultural, socioeconomic, historical, and geo-political backgrounds. (GC)

ENGL-117 Science Fiction and Fantasy  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & 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
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU & 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
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course examines selected gothic novels in English and American literature in order to analyze and discuss their importance in the development of fiction. Course focus is on the gothic impulse in nineteenth century literature. Classics like Frankenstein, Dracula, Jane Eyre, and Dr. Jekyll and Mr. Hyde will be studied in connection with the preoccupations of the Romantic and Victorian eras. Vintage films will be shown. (GC)

ENGL-120A Survey of American Literature: Beginning to 1865
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU & UC
This course focuses on the literary productions of America from its beginning to 1865. Students will read and discuss American oral traditions, short stories, poetry, drama, and novels and will become familiar with great American writers. (GC)

ENGL-120B Survey of American Literature: 1865 to Present
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU & UC
This course focuses on American literature from 1865 to the present: Transcendentalism, Modernism, Postmodernism. Students will read and discuss classic American short stories, poetry, drama, and novels and will become familiar with great American writers. (GR)

ENGL-121 The Mystery: Unlocking Its Secrets
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
The course explores the mystery genre by introducing students to various works of past and contemporary British and American authors and by introducing students to the various sub-genres such as cozies, amateurs, police procedurals, forensics, and private investigators. (GC)

ENGL-122 Environmental Literature
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This course is a survey of environmental writing reflecting the changing relationship between humans and their environment through time. Readings will cover a range of eras and philosophies, including Native American creation tales, narratives from the Age of Conquest, poetry and fiction from the Romantic Era, early environmental essays from the 19th and 20th centuries, and current environmental writing. Students will read a variety of literary and non-fiction texts from Thoreau, Muir, Leopold, Stegner, Carson, Abbey, Pollan, and others. (GC)

ENGL-127 Autobiography: Writing Journals and Memoirs
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This is an autobiography course for those who wish to write about their personal and family experiences in journals and memoirs. The course encourages students to remember, consider, and write about their own and their family’s past and present, to learn basic research techniques, to organize their material, and to write effectively. Students will also discuss extracts from published autobiographical works. (GC)

ENGL-129 Psychology and Literature
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course focuses on a variety of major psychological issues as they emerge from the close study of character, conflict, and motivation in literature. Common themes will include attachment and identity, childhood, family conflict, sexuality, and romantic love, stages of adulthood, and awareness of death. Major psychological theorists such as Freud, Piaget, and Erikson will be presented and their theories applied to the texts being analyzed and discussed. (GC)

ENGL-130 American Stories: Multicultural Autobiography and Memoir
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course explores the lives of multicultural Americans, such as Native Americans, African Americans, Asian Americans, and Latinos, as told through autobiography or memoir. (GC)

ENGL-135 Emerging Voices: Literature Reflecting the Diversity of the U.S.
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course explores how four historically underrepresented groups (African-American, Asian-American, Chicano/Latino, and Native-American) have chronicled and celebrated their cultures in poetry, drama, and fiction. (GC)

ENGL-151A Fundamentals of Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ESL-184RW with a grade of C or better, equivalent course, or appropriate skill level demonstrated through the placement test process
Advisory: Concurrent enrollment in ENGL-162 or ENGL-175
This course focuses on fundamentals of English grammar, punctuation, and acceptable usage as applied to writing clear sentences, paragraphs, and informal essays. Not applicable to the associate degree. (GR)

ENGL-151B Fundamentals of Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ENGL-151A with a grade of C or better, or equivalent, or appropriate skill level demonstrated through the placement test process
Advisory: Concurrent enrollment in ENGL-163 or ENGL-175
This course reviews fundamentals of English grammar, punctuation, and sentence structure and focuses on reading critically and writing well-developed and well-organized paragraphs and essays (descriptive, expository, and argumentative). Not applicable to the associate degree. (GR)
ENGL-156 Introduction to Report and Technical Writing
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B or BA-116 or equivalent writing experience
Accepted For Credit: CSU
This course focuses on the basics of technical writing and covers how to write effective workplace documents such as memos, procedures, and reports, as well as formal proposals. (GC)

ENGL-162 Developmental Reading
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: Accuplacer assessment or completion of ESL-184RW with a grade of C or better; concurrent enrollment in ENGL-151A encouraged to enhance combined reading and writing skills
English 162 is an introduction to college reading and study techniques. Students learn to analyze, annotate, and summarize a variety of college readings, including essays, textbooks chapters, news articles, and stories. Emphasis is on analytical reading: recognizing main ideas, discerning underlying patterns of thought, making inferences and drawing conclusions. Not applicable to the associate degree. Repeatable = 1 time (GR)

ENGL-163 Techniques of College Reading
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: Score between 71.5 and 87.5 on the reading portion of Accuplacer Assessment or completion of ENGL-162 with a grade of C or better
Advisory: Concurrent enrollment in ENGL-151B encouraged
ENGL-163 is the most advanced in the series of reading and study skills courses. In this course students will develop college level skills in vocabulary, comprehension, critical reading and thinking, study strategies, reading rate, and written response to reading. Not applicable to the associate degree. Repeatable = 1 time (GR)

ENGL-167 Critical and Analytical Reading
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
A college-level reading course with emphasis on the development of critical analytical thinking. Focus is placed on the student's ability to understand inferential reading passages, including the ability to understand the author's point of view and to engage in textual analysis. In addition, the student should develop the ability to successfully critique college-level reading material by analyzing a variety of prose structures. (GC)

ENGL-172 Vocabulary Improvement
54.00 hrs lab
Units: 1.00
This course is designed for students of all levels of achievement who wish to improve their vocabulary through an individualized program. Students will be asked to work 54 hours in the lab at their convenience. Materials are assigned after pretesting. Not applicable to the associate degree. Repeatable = 3 times (GC)

ENGL-173 Improvement of Learning Techniques
54.00 hrs lab
Units: 1.00
ENGL-173 is for students who wish to improve learning skills through individualized practice of effective reading, studying, and listening. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to the associate degree. Repeatable = 3 times (GC)

ENGL-174 Spelling Improvement
54.00 hrs lab
Units: 1.00
ENGL-174 is for students who wish to improve spelling skills through individualized practice. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to the associate degree. Repeatable = 3 times (GC)

ENGL-175 Reading and Comprehension Improvement
54.00 hrs lab
Units: 1.00
ENGL-175 is for students who wish to improve reading comprehension through individualized work on specific weaknesses. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to the associate degree. Repeatable = 3 times (GC)

ENGL-176 Rapid Reading
54.00 hrs lab
Units: 1.00
Advisory: Ninth grade reading comprehension level
This course is for the student who has at least a ninth grade level of comprehension and who wishes to increase reading rate while maintaining or improving the level of comprehension. Students will be asked to complete three programs equivalent to 54 hours at their convenience. Materials are assigned after pretesting. Not applicable to the associate degree. Repeatable = 3 times (GC)

ENGL-191 Grammar and Editing Skills
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ESL-191
Prerequisite: ESL-183RW with grade of C or better or placement into ESL-184RW, ENGL-151A, or higher level English course
This course is designed to help non-native speakers of English improve their grammar and editing skills, but is open to native speakers as well. It is open to students who are enrolled in or have completed any of the following courses: ESL-184W, ENGL-151A, ENGL-151B, or ENGL-101A. Not applicable to the associate degree. (CR)

ENGL-365 Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

ENGLISH AS A SECOND LANGUAGE
Division: Humanities, Social Sciences, and Mathematics

ESL-120 Intensive English Grammar Review
18.00 hrs lecture
Units: 1.00
Prerequisite: Completion of ESL-181 with grade of C or better, or placement into ESL-182 or higher
This course is designed to improve grammatical accuracy and fluency in English speaking and writing. This course covers difficult grammatical structures with which students who have studied grammar often struggle. It is recommended for students whose native language is not English. Not applicable to the associate degree. (GR)
ESL-121  English Idioms
36.00 hrs lecture
Units: 2.00
Prerequisite: 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 the associate degree. (GC)

ESL-122  News and Current Events for ESL Students
36.00 hrs lecture
Units: 2.00
Prerequisite: ESL-181RW, or placement into ESL-182RW 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 the associate degree. (GC)

ESL-123  English Verb Tenses
54.00 hrs lecture
Units: 3.00
Prerequisite: Completion of ESL-181RW, or placement into a higher level of ESL or English by means of placement testing
This course is designed for non-native speakers of English who want a review of the English verb tense system. It emphasizes accurate use of verb tenses in writing, but it will include oral practice as well. Not applicable to the associate degree. (GC)

ESL-124  Article and Preposition Use for Non-Native Speakers of English
36.00 hrs lecture
Units: 3.00
This course is designed to provide non-native speakers of English with review and practice in the correct usage of English articles and prepositions. Emphasis will be equally divided between written and oral usage. Not applicable to the associate degree. (GC)

ESL-125  Using the Internet for ESL Practice
36.00 hrs lecture
Units: 2.00
This course is designed for non-native speakers of English to learn how to make good use of the rich internet resources available for learning and practicing English. Students will learn about a variety of ESL Web sites, and will learn the computer skills necessary to most effectively interact with those resources. Not applicable to the associate degree. (GC)

ESL-150  Basic English Pronunciation/Accent Reduction
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Cross-referenced Course: SPCH-150
Advisory: Concurrent enrollment in ESL-181LS
Practice in pronunciation in idiomatic expressions, phraseology, and rhythmical inflections. Emphasis on individual needs in achieving effective oral communication. Not applicable to the associate degree. (GC)

ESL-151  Introduction to Speech Communication Skills
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: SPCH-151
Prerequisite: SPCH/ESL-150
Practice for non-native speakers in presentation skills for both classroom and job settings. Not applicable to the associate degree. (GC)

ESL-153  Integrated Communications Skills for Learners of English
36.00 hrs lecture
Units: 2.00
Prerequisite: Students must qualify for ESL-181
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 the associate degree. (GC)

ESL-154  Integrated Communication Skills for Learners of English B
36.00 hrs lecture, 18.00 hrs lab
Units: 2.00
Prerequisite: Students must qualify for ESL-181
This course is designed for ESL students to 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 the associate degree. (GC)

ESL-178  ESL Skills Lab
54.00 hrs lab
Units: 1.00
English language learners can improve their language skills through individualized practice in reading skills, grammar, and listening. Students work 54 hours in the lab at their convenience. Materials are assigned after pretesting. Not applicable to the associate degree. (CR)

ESL-181LS  Listening and Speaking, Level I
90.00 hrs lecture
Units: 5.00
Prerequisite: Based on ESL Placement Test score
This course is designed to develop communication skills in American English. It is open to students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency and vocabulary development. Not applicable to the associate degree. (GC)

ESL-181RW  Reading and Writing, Level I
90.00 hrs lecture
Units: 5.00
Prerequisite: Based on ESL Placement Test score
This course is designed to develop reading, writing, and grammar skills in American English. It is open to students whose native language is not English. There is practice in the skills of reading, writing, and grammar with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to the associate degree. (GC)

ESL-182LS  Listening and Speaking, Level II
90.00 hrs lecture
Units: 5.00
Prerequisite: ESL-181LS and/or appropriate score on the ESL Placement Test
This course is designed to develop skills in American English. It is open to students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to the associate degree. (GC)
ESL-182RW  Reading and Writing, Level II
90.00 hrs lecture
Units: 5.00
Prerequisite: ESL-181RW and/or appropriate score on ESL Placement Test
This course is designed to develop skills in American English. It is open to students whose native language is not English. There is practice in the skills of reading, writing, and grammar with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to the associate degree. (GC)

ESL-183LS  Listening and Speaking, Level III
72.00 hrs lecture
Units: 4.00
Prerequisite: ESL-182LS and/or appropriate score on ESL Placement Test
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 the associate degree. (GC)

ESL-183RW  Reading and Writing, Level III
72.00 hrs lecture
Units: 4.00
Prerequisite: ESL-182RW or placement through ESL Placement Test
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 the associate degree. (GC)

ESL-184RW  Reading and Writing, Level IV
72.00 hrs lecture
Units: 4.00
Prerequisite: ESL-183RW or appropriate score on the ESL Placement Test
This is the fourth level in the ESL sequence. It will emphasize reading and writing skills for academic purposes, but it will require oral presentations as well. Not applicable to the associate degree. (GC)

ESL-191  Grammar and Editing Skills
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ENGL-191
Prerequisite: ESL-183RW with grade of C or better or placement into ESL-184RW, ENGL-151A, or higher level English course
This course is designed to help non-native speakers of English improve their grammar and editing skills, but is open to native speakers as well. It is open to students who are enrolled in or have completed any of the following courses: ESL-184W, ENGL-151A, ENGL-151B, or ENGL-101A. Not applicable to the associate degree. (CR)

ESL-365  ESL – Supervised Tutoring
90.00 hrs lecture
Units: 0.00
Prerequisite: Instructor or Counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with a tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

ENVIRONMENTAL STUDIES
Division: Health Sciences and Environmental Studies

ENVS-101  Natural Resource Management
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
Quantitative analysis of earth's natural resources and the role of human populations in their use, sustainable development, and exploitation. Topics typically include the status and trends of resources such as topsoil degradation, agriculture, water, energy, and wildlife. Emphasis is on problem solving and computational methods applied to resource management problems. (GC)

ENVS-102  Environmental Law and Regulations
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course explores fundamental legal and policy issues in environmental law. Legislative, judicial, and administrative controls over public and private actions impacting on the environment are discussed. The course examines the statutory, administrative, and judicial decisions relating to the environment and the government actors, agencies, and citizens making these decisions. (GC)

ENVS-103  The Environment and Human Health
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
A by-product of human population growth is the modification of habitat and the surrounding environment. This course examines the close link between human health and environmental health, particularly focusing on how pollution of the air, water, and land, as well as contamination of food and ecosystems impacts the human body. (GC)

ENVS-104  Solar Photovoltaic Design and Installation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Introduction of solar photovoltaic system requirements, design and configurations, installation techniques, and their application in residential and commercial construction. Entry-level Certification Exam from NABCEP is an option. (GR)

Did you know??
Built to strict environmental sustainability standards, the Newark Center for Health Sciences and Technology received LEED Platinum Certification from the US Green Building Council in August 2008.
ENVS-105 Energy: Development and Sustainability
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course is an exploration of the conversion and use of energy, on the nature of energy and energy systems, how different cultures use and view energy, and the use of energy in contemporary societies. This course will explain the origin and dimensions of the global energy problem and identify how energy issues and policies affect environmental quality, economic growth, and global politics. The course will focus on how energy conservation, energy efficiency, and renewable energy sources can be incorporated to create a sustainable society. (GR)

ENVS-106 Wind Energy: Design and Development
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course explores the role of wind as an energy source, as well as its social, economic, and political implications on the global energy supply. Surveys in historical wind energy application will be conducted, its reliability assessed, and environmental implications analyzed. Also studied will be wind energy applications and basic operating principles. The status of the industry’s future and renewable energy as a whole will be analyzed. (GR)

ENVS-108 Human Ecology
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BIOL-108
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Human Ecology is an interdisciplinary, general education course that identifies problems created by man’s modification of his environment, presents solutions to these problems, and offers appropriate alternatives. (GC)

ENVS-122 Environmental GIS
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: GEOG-122
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)

ENVS-142 Environmental Biology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: BIOL-142
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This lecture and lab course is an introduction to the biological sciences focusing on diversity; organismal interactions with their environment and with other organisms (ecology), the effects humans have had on biological diversity and ecosystems, and efforts to protect species and their habitats (conservation). (GC)

FRENCH
Division: Humanities, Social Sciences, and Mathematics

FREN-101A Elementary French
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is an introduction to the reading, writing, speaking, and understanding of French. (GR)

FREN-101B Elementary French
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: FREN-101A with a grade of C or better or 2 years of high school French
Accepted For Credit: CSU & UC
This course is a continuation of FREN-101A. It covers the fundamentals of French grammar in addition to reading, writing, and speaking the language. (GR)

FREN-102A Intermediate French
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: FREN-101B with a grade of C or better or 3 years of high school French
Accepted For Credit: CSU & UC
This course is a review of grammar, oral, and written composition and a study of French culture. (GR)

FREN-102B Intermediate French
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: FREN-102A with a grade of C or better
Accepted For Credit: CSU & UC
This course is a continuation of FREN-102A that covers advanced grammar, oral and written composition and the study of the French civilization. (GR)
FREN-110  Beginning Conversational French  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
This course focuses on the essentials of French conversation leading to the development of the ability to use the French language in everyday situations. Extensive oral practice of the language is combined with fundamental grammatical concepts. Repeatable = 3 times (GC)

FREN-111  Individualized French Lab  
27.00 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  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
This course involves individual and independent laboratory studies to increase students’ proficiency in oral and written French. Repeatable = 3 times to a maximum of 4 units (GR)

GEOG-101  Physical Geography  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
Advisory: Eligible for ENGL-151B and ENGL-163  
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, and pollution. (GC)

GEOG-102  Cultural Geography  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course will focus on the study of the origin, spread, and regional differences of human cultures as they relate to the use of the earth and how they relate to their physical environments. The course explores how different people use and/or abuse or otherwise change the earth as the home of humanity. (GC)

GEOG-104  The World’s Nations  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course deals with the regional variations of the world and its effects of human modification of the physical environment. The factors contributing to landscape change such as settlement patterns, transportation networks, types of agriculture, and the various types of land tenure systems; current world problems and environmental issues are also discussed. (GC)

GEOG-105  California Geography  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course investigates California’s physical, cultural, and economic environments, analyzing changes resulting from both natural and human interaction. The emphasis is on cultural diversity, human alteration of the landscape, and contemporary problems resulting from accelerated competition for natural, financial, and human resources. (GC)

GEOG-121  Introduction to Geographic Information Systems (GIS)  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Prerequisite: GEOG-121  
Cross-referenced Course: ENV-122  
Prerequisite: GEOG-121  
Accepted For Credit: CSU  
The objective of this introductory course is to gain basic knowledge of GIS concepts, techniques and applications. The emphasis of this course is to provide hands-on instruction on the functionality of GIS as an effective tool for modeling and analyzing complex spatial relationships. (GC)

GEOG-122  Environmental GIS  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ENVS-122  
Prerequisite: GEOG-121  
Accepted For Credit: CSU  
This course will apply skills and techniques that were introduced in GEOG-121. The course will allow the student to gain a further understanding of GIS concepts, technical issues, and applications using ArcView GIS to study various environmental themes. (GC)

GEOG-123  GIS Projects  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Prerequisite: GEOG-121  
Advisory: Familiarity with Windows OS and some knowledge of database programs is advantageous  
Accepted For Credit: CSU  
This course enables students to manage small or large GIS projects using student-initiated or work-related database by using basic knowledge acquired in GEOG-121. Emphasis is on developing skills needed for solving real-world problems and for analysis of spatial relationships using GIS. Repeatable = 1 time (GC)

GEOG-365  Supervised Tutoring  
90.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or Counselor Referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NC)
GEOLOGY

Division: Science, Technology, and Engineering

GEOL-101 Introduction to Geology
54.00 hrs lecture; 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU & UC
Geological processes that shape the earth and its history. Special attention is given to the global geological phenomena (earthquakes, volcanoes, plate tectonics), the concept of “deep” time, natural resources, and the interaction between humans and their environment. (GC)

GEOL-103L Paleontology Laboratory
54.00 hrs lab
Units: 1.00
Corequisite: GEOL-103
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
GEOL-103L is designed to supplement GEOL-103. The labs will consist of hands-on studies of actual fossil specimens of animals and plants from all over the world and representing different stages in the evolution of life on earth. The lab exercises will be supplemented by Internet assignments and a small group project. Saturday field trip(s) required in lieu of scheduled lab time. (GC)

GEOL-102L Oceanography Laboratory
54.00 hrs lab
Units: 1.00
Corequisite: GEOL-102
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & 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
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163; GEOL-103L recommended
Accepted For Credit: CSU & UC
This course is a journey through time that examines the history of life from its beginnings to the end of the last Ice Age, the changing Earth, evolution, mass extinctions, and fossils of dinosaurs and their relatives. (GC)

GEOL-103L Paleontology Laboratory
54.00 hrs lab
Units: 1.00
Corequisite: GEOL-103
Advisory: Eligible for ENGL-151B, ENGL-163; ENGL-172
Accepted For Credit: CSU & UC
GEOL-103L is designed to supplement GEOL-103. The labs will consist of hands-on studies of actual fossil specimens of animals and plants from all over the world and representing different stages in the evolution of life on earth. The lab exercises will be supplemented by Internet assignments and a small group project. Saturday field trip(s) required in lieu of scheduled lab time. (GC)

GEOL-365 Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or Counselor Referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

GRAPHIC ARTS

Division: Fine Arts, Business, and Communication Studies

GA-109A Beginning Graphic Design I
36.00 hrs lecture, 126.00 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
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-109B
Prerequisite: GA-109A or ART-109A
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-110A Advanced Graphic Design I
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-110A
Prerequisite: GA-109B or ART-109B
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
36.00 hrs lecture, 126.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-110B
Prerequisite: GA-110A or ART-110A
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)
G A -138 A  
**Beginning Photoshop**
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-138A  
Accepted For Credit: CSU & UC  
This course is for photographers with limited experience or new to Adobe Photoshop. Students learn how to work with a digital “darkroom” using images supplied by the instructor for this purpose. Topics included are image file management and organization, file formats, resolution, basic image editing, selective image editing, scanning, preparing images for web-based application, how to purchase a digital camera, and more. A digital camera is not required. Repeatable = 3 times (GC)

G A -138 B  
**Intermediate Photoshop**
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-138B  
Prerequisite: GA/ART-138A  
Accepted For Credit: CSU  
This course is for photographers wishing to increase their working knowledge of Adobe Photoshop. Students work with a digital “darkroom” using original images as well as images supplied by the instructor. Topics included are working with layers and masks, opacity and blend modes, transforming, working with text, camera raw, actions and smart filters, print and web-based workflow. A digital camera is not required. Repeatable = 2 times (GC)

G A -160 A  
**Computer Graphics I**
54.00 hrs lecture, 162.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160A, BA-160A, CS-160A  
Advisory: ART-104A  
Accepted For Credit: CSU & UC  
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)

G A -160 B  
**Computer Graphics II**
54.00 hrs lecture, 162.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160B, BA-160B, CS-160B  
Prerequisite: ART/CAOT/CS-160A or equivalent  
Advisory: ART-104A  
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)

G A -161 A  
**Digital Graphics I**
18.00 hrs lecture, 90.00 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)

G A -161 B  
**Digital Graphics II**
18.00 hrs lecture, 90.00 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)

G A -162  
**Digital Graphics Lab**
54.00 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)

G A -163  
**Digital Arts Lab – Macintosh**
27.00 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)

**Beginning Digital Photography**
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-139A  
Accepted For Credit: CSU & UC  
This course explores the photographer’s creative process from several directions. Students will undertake photographic projects designed to provide engagement with a variety of subject matter and ways of photographing, look at photographic work in online and local galleries and museums, consider current issues having to do with photographic technologies, discuss their photographs with other students in an effort to improve their creative processes. Technical instruction will include camera functions, resizing and saving digital files, and minor image modification. For intense technical instruction, see GA-138A and GA-138B. Repeatable = 3 times (GC)

**Intermediate Digital Photography**
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-139B  
Prerequisite: ART-139A or GA-169A  
Accepted For Credit: CSU  
This course continues an exploration of the photographer’s creative process from several directions. Students will undertake photographic projects designed to provide engagement with a variety of subject matter and ways of photographing, complete an extended photographic project of their choosing and receive guidance from the instructor and students, look at photographic work in online and local galleries and museums, consider current issues around photographic technologies, discuss their photographs with other students in an effort to improve their creative processes. Students will formalize their individual projects as books or online galleries. Technical instruction will include camera functions, resizing and saving digital files, and minor image modification. For intense technical instruction see GA-138A or GA-138B. Repeatable = 3 times (GC)
**GA-188 Desktop Publishing with QuarkXpress**
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: CAOT-188
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU

This is an introductory course in Desktop Publishing (DTP) with QuarkXPress software. Business documents which contain text and graphics will be designed, created, edited, and printed. (GC)

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**HEALTH**

Division: Athletics and Exercise Science

**HLTH-101 Contemporary Health Issues**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC

This course promotes personal, family, and community well-being and includes ways to obtain and maintain optimum wellness. (GC)

**HLTH-120 Mind-Body Balance**
36.00 hrs lecture
Units: 2.00

This experiential course invites participants to integrate mind-body techniques into their life to promote relaxation, balance and mindfulness. Mind-body techniques include meditation, breath work, biofeedback, imagery, reflective drawing, journaling, nutrition, time management, assertiveness, and exercise. This course focuses on the art of self-care. Registered Nurses and Licensed Vocational Nurses will receive thirty continuing education hours upon successful course completion. (GC)

**HLTH-125 Stress Management**
36.00 hrs lecture
Units: 2.00
Advisory: Ability to read and write English at a college level is highly recommended

This course is a theoretical and experiential approach for incorporating stress management into your daily life. Understand the stressors in your life, the physical and psychological implications of that stress, prevention strategies and stress reduction techniques. (GC)

**HLTH-130 Acupressure Connection I**
18.00 hrs lecture
Units: 1.00
Cross-referenced Course: AH-130

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. Repeatable = 2 times (CR)

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**HISTORY**

Division: Humanities, Social Sciences, and Mathematics

**HIST-104A Western Civilization with a World Perspective Until 1600**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC

This course is a survey of the cultural, social, and political developments of civilization in the Mediterranean through the beginning of early modern history. This course takes an interdisciplinary approach to the study of Western Civilization before 1600 and includes a world perspective. (GC)
**HIST-104B Western Civilization with a World Perspective From 1600**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a survey of the cultural, social and political developments in Western Civilization with a world perspective from the rise of the nation-state through contemporary times with a speculative look at the future. (GC)

**HIST-105 History of California**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course covers the heritage and development of California from its beginnings to the present day with emphasis on the economic, social, ethnic, multicultural, and political forces which shaped the modern state. The Golden State's phenomenal growth and multicultural changes are emphasized. (GC)

**HIST-107 History of Film**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: TD-107
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course examines the impact of film on our lives and history. Students will review films, and discuss and analyze techniques used. (GR)

**HIST-112 Chicano History**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CHS-102
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course covers the development of Chicano history. Special emphasis will be placed upon the influence of Chicano history on contemporary institutions, particularly in the Southwest and California. (GC)

**HIST-114A African American History 1619-1877**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B and/or ENGL-163
Accepted For Credit: CSU & UC
This course covers the history of African Americans from the early 17th century to 1877. Political, social, cultural, and economic experiences will be discussed. (GC)

**HIST-114B African American History 1877 to Present**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B and/or ENGL-163
Accepted For Credit: CSU & UC
A history of African Americans from 1877 to present will be covered. Political, social, cultural, and economic experiences will be discussed. (GR)

**HIST-115 Asian-American History**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a review of Asian Pacific Americans in the social, political, economic, and cultural development of the United States from Reconstruction to the present. Groups surveyed will include Korean, Filipino, Asian Indian, Pacific Islanders, South East Asian, Japanese, and Chinese. (GC)

**HIST-117A History of the United States**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course surveys the history of the United States from pre-colonial times through Reconstruction (1877). (GR)

**HIST-117B History of the United States**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course surveys the history of the United States from 1877 (the end of Reconstruction) to the present. (GC)

**HIST-118 Contemporary U.S. History: 1945 -**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course surveys the post-World War II role of the United States in world affairs and explores the socio-political development of the nation from 1945 to the present. It will emphasize the growing cultural pluralism of twentieth century America. (GR)

**HIST-119A Bad Girls: Women in America Before 1890**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
Women before 1890 faced numerous hardships in their struggles for equality. This course traces women of different racial and ethnic backgrounds as they challenge social, economic, political, and gender norms in North America. The course explores how women have negotiated issues such as race, class, gender, work/labor, and sexuality. (GC)

**HIST-119B Bad Girls: Women in American From 1890**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
Women in the United States after 1890 faced numerous hardships in their struggles for equality. This course traces women of different racial and ethnic backgrounds as they challenge social, economic, political, and gender norms in North America. The course explores how women have negotiated issues such as race, class, gender, work/labor, and sexuality. (GR)

**HIST-141 A History of Early Rock and Roll: Music and Culture of the 1950’s**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-142, MUS-122
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950’s – Bill Haley, Fats Domino, Elvis Presley, Chuck Berry, and Little Richard – will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student’s appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and the American Culture. The course will chart how rock & roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)
IS-142 History of Rock and Roll: Music and Culture of the 1960’s
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-143, MUS-123
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course charts the evolution of Rock and Roll music from the late 1950’s through the 1960’s focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students’ appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society. (GC)

HIST-143 History of Rock and Roll: Music and Culture Since 1970
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: MUS-125
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course examines the development of popular music and its relationship to general culture and society since 1970. It will include identification and analysis of art rock, disco, new wave, reggae, rap, hip-hop, worldbeat, and other musical genres through online reading, lectures, and in-class demonstrations. (GR)

HIST-365 Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or Counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

INTERDISCIPLINARY STUDIES
Division: Fine Arts, Business, and Communication Studies

IS-100 Survey of the Arts
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ART-100, MUS-100, TD-100
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
In this course theatre, art, and music are explored through discussion, historical review, and contemporary issues. The purpose of this course is to increase students’ understanding and enjoyment of the arts. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

IS-110 Introduction to Ethnic Studies
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to the historical experiences of selected ethnic minority communities in the United States which affect how minorities view themselves in relationship to the larger United States society. Exploration of such issues as affirmative action, differential educational needs, and cross-cultural learning and communication patterns will be studied. (GR)

IS-120 Women of the Western World
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: WS-120
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course is an interdisciplinary course involving an overview of women’s traditional roles in the western world; the history of the feminist movement, past and present; and an attempt to define the changing role of women in a diverse contemporary American society. Cross-cultural information about women’s roles in other societies will be regularly introduced. (GC)

IS-142 A History of Early Rock and Roll: Music and Culture of the 1950’s
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-141, MUS-122
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950’s – Bill Haley, Fats Domino, Elvis Presley, Chuck Berry, and Little Richard – will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student’s appreciation of this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and American culture. The course will chart how rock and roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)

IS-143 History of Rock and Roll: Music and Culture of the 1960’s
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-142, MUS-123
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course charts the evolution of Rock and Roll music from the late 1950’s through the 1960’s focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students’ appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society. (GC)

INTERIOR DESIGN
Division: Fine Arts, Business, and Communication Studies

ID-150A Interior Design Concepts
54.00 hrs lecture, 36.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-150A
Accepted For Credit: CSU
This is an introductory course. Students analyze interiors using basic design concepts. Principles and techniques used by professional interior designers are demonstrated. Case studies in problem solving with an emphasis on residential interiors are presented. Repeatable = 1 time (GC)
ID-150B  Interior Design  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-150B  
Prerequisite: ID/ART-150A  
Accepted For Credit: CSU  
This course is a continuation of ID-150A. Interior design theories and methodologies are explored in depth through case studies emphasizing the design of public space. Repeatable = 3 times (GC) 

ID-151  Visualization and Presentation  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-151  
Advisory: ID-150A, ID-155A, or ART-108  
Accepted For Credit: CSU  
This course familiarizes students with current methods and materials used in the design industry to develop concepts and communicate ideas. Students will prepare a design portfolio. Repeatable = 3 times (GC) 

ID-153  History of Decorative Arts  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-153  
Accepted For Credit: CSU & UC  
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  
36.00 hrs lecture  
Units: 3.00  
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  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-155A  
Advisory: Concurrent with ART/ID/CA-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  
36.00 hrs lecture, 126.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-155B  
Prerequisite: ART/ID-155A or equivalent  
Accepted For Credit: CSU  
This course focuses on the fundamentals of computer-aided drafting as related to interior design and architectural drawings through understanding concepts rather than memorizing commands. Drawing skills are learned and developed by applying these concepts to solve practical laboratory problems. Repeatable = 3 times (GC) 

ID-156  Architectural Modelmaking for Interior Design  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-156  
Accepted For Credit: CSU  
Scale models will be developed in this class for presenting and studying architectural and interior design. A wide range of materials and processes will be explored. Repeatable = 3 times (GC) 

ID-157  Professional Practice for Interior Design  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-157  
This class introduces basic business practices for interior designers. It also includes an overview of career paths, business planning and organization, professional associations, marketing, sales, wholesale resource development, contractual obligations, and ethics. It is designed for people preparing to enter the field of interior design. (GC) 

ID-158  Textiles  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-158  
Accepted For Credit: CSU & UC  
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  
18.00 hrs lecture  
Units: 1.00  
Cross-referenced Course: ART-159A  
Accepted For Credit: CSU  
This seminar will present an overview of basic considerations necessary to plan, choose, and place lighting fixtures throughout a home to help define space, articulate atmosphere, direct attention, and facilitate activities. Repeatable = 3 times (GC) 

ID-159B  Applied Design: Color for the Home  
18.00 hrs lecture  
Units: 1.00  
Cross-referenced Course: ART-159B  
Accepted For Credit: CSU  
This seminar will explore various approaches that may be followed to arrive at color schemes that are satisfying, comfortable, and exciting. Repeatable = 3 times (GC) 

ID-163  Digital Arts Lab – Macintosh  
27.00 hrs lab  
Units: 0.50  
Cross-referenced Course: ART-163, GA-163  
This course is a lab component for all courses taught on the Macintosh and on drafting equipment in these areas: Art, Graphic Arts/Computer Graphics, Photography, and Interior Design. Students will produce digital graphic and drafting projects for art related classes. Repeatable = 3 times (CR)
INT-101 Interpreting As a Career
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
This course gives students general information about the field of interpreting. Topics include history, definitions of interpreting, modes and methods, the need for interpreting, code of ethics, interpreting settings, and evaluation and certification of interpreters. (GC)

INT-106 Discourse Analysis: ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: Acceptance into the IPP
Accepted For Credit: CSU
This course is an overview of ASL discourse. Topics include discourse structure, language variation, genre, register, prosody, cohesion, turn-taking and backchanneling, and gendered communication. Transcription conventions will be reviewed for noting language samples. Repeatable = 1 time (GR)

INT-107 Interpreter Orientation
54.00 hrs lecture
Units: 3.00
Prerequisite: Acceptance into the IPP
Accepted For Credit: CSU
This course provides students with a working knowledge of the interpreting profession and examines basic principles and practices of interpreting. It also examines student strengths and weaknesses as they relate to interpreting and working with deaf people as well as developing and assessing interactional skills needed for working in a practice profession. (GR)

INT-112 Comparative Linguistics: ASL and English
54.00 hrs lecture
Units: 3.00
Prerequisite: Acceptance into IPP
Accepted For Credit: CSU
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
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: Acceptance into the IPP
Accepted For Credit: CSU
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, discourse analysis, content mapping, summarizing and paraphrasing skills. Expressive fingerspelling is also practiced. Repeatable = 1 time (GR)

INT-116 Discourse Analysis: English
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course is an overview of English discourse. Topics include discourse structure, language variation, genre, register, prosody, cohesion, turn-taking, and gendered communication. Transcription conventions will be reviewed for noting language samples. (GC)

INT-127 Ethics I
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
This course will focus on identifying and exploring students' personal ethics and beliefs as well as those of the U.S. majority culture. (GC)

INT-145 Practicum: Deaf Mentorship
243.00 hrs lab
Units: 4.50
Prerequisite: Completion of first semester IPP courses with grade of C or better
Corequisite: INT-121
Accepted For Credit: CSU
This course is designed to provide IPP students exposure to Deaf adults and the role of the interpreter in a variety of settings. Students may be provided the opportunity to do some low-risk interpreting. A weekly seminar is included to process experiences of practicum experience. (GR)

INT-147 Introduction to Interpreting for People Who Are Deaf/Blind
36.00 hrs lecture
Units: 2.00
Prerequisite: Students must have passed all first semester courses: INT-106, INT-107, INT-112, INT-115, INT-115L, INT-116 and INT-127
Accepted For Credit: CSU
This course exposes students to background information about people who are Deaf-Blind including modes and principles of communication, aspects of the community, and guiding techniques. (GR)

INT-153 Interpreting: ASL to English
72.00 hrs lecture, 108.00 hrs lab
Units: 6.00
Corequisite: INT-145, INT-147, INT-199A, INT-199B
Accepted For Credit: CSU
The focus of this course is interpreting from ASL into spoken English. Texts will be analyzed for language use and meaning and interpreted into English, both written and spoken. Consecutive and simultaneous interpreting will be studied and practiced. (GC)

INT-180 Ethics, Role, Responsibility
54.00 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
Accepted For Credit: CSU
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-190 Interpreting Internship
270.00 hrs lab
Units: 5.00
Prerequisite: Completion of three semesters of IPP courses with grade C or better
Corequisite: INT-180 and INT-181
This course is designed to give IPP students a concentrated field experience in interpreting. Students will spend 200 hours working in several facilities providing interpreting services to Deaf individuals. Students will have on-site, RID-certified interpreters as their supervisors. A weekly seminar with the instructor will focus on interpreting issues and fieldwork experiences. Repeatable = 1 time (CR)

INT-191A ASL Interpreting Workshops
18.00 hrs lecture
Units: 1.00
Prerequisite: Working interpreter experience; 4 semesters of ASL
Accepted For Credit: CSU
This course is a workshop for working interpreters covering selected topics in the field of sign language interpreting. The theme and content of each workshop varies and is determined by the faculty. Repeatable = 3 times (CR)

INT-191B ASL Interpreting Workshops
36.00 hrs lecture
Units: 2.00
Prerequisite: Working interpreter experience; 4 semesters of ASL
Accepted For Credit: CSU
This course is a workshop for working interpreters covering selected topics in the field of sign language interpreting. The theme and content of each workshop varies and is determined by the faculty. Repeatable = 3 times (CR)

INT-191C ASL Interpreting Workshops
54.00 hrs lecture
Units: 3.00
Prerequisite: Working interpreter experience; 4 semesters of ASL
Accepted For Credit: CSU
This course is a workshop for working interpreters covering selected topics in the field of sign language interpreting. The theme and content of each workshop varies and is determined by the faculty. Repeatable = 3 times (CR)

INT-195A1 Work Experience Education – Vocational
75.00 hrs lab
Units: 1.00
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) (GC)

INT-195A2 Work Experience Education – Vocational
150.00 hrs lab
Units: 2.00
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) (GC)

INT-195A3 Work Experience Education – Vocational
225.00 hrs lab
Units: 3.00
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) (GC)

INT-195A4 Work Experience Education – Vocational
300.00 hrs lab
Units: 4.00
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) (GC)

INT-199A Introduction to Multicultural Issues in Interpreting
18.00 hrs lecture
Units: 1.00
Corequisite: INT-145, INT-147, INT-153, INT-199B
Accepted For Credit: CSU
This course introduces students to multicultural issues important to people working in a helping profession. Populations to be highlighted are American Indian/Native Americans, African-American/Black, Asian and Pacific Islanders, and Latino. (GC)

INT-199B Introduction to Oral Facilitation
9.00 hrs lecture
Units: 0.50
Corequisite: INT-145, INT-147, INT-153, INT-199A
Accepted For Credit: CSU
This course introduces students to working with deaf people who do not know sign language. Techniques for oral transmission of information will be covered. (GC)

INT-199C Introduction to Medical Interpreting
18.00 hrs lecture
Units: 1.00
Corequisite: INT-237, INT-240, INT-253, or instructor approval for working and Deaf interpreters
Accepted For Credit: CSU
This course introduces students to interpreting in the medical setting. Topics include the wide variety of situations and consumers in the setting, environmental considerations, interpersonal considerations, medical discourse, situational ethics, and resources. (GC)

INT-199D Introduction to Educational Interpreting K-12
18.00 hrs lecture
Units: 1.00
Corequisite: IPP students must be in their third semester classes and have passed all second semester courses with C or better. This course is also open to working interpreters. Deaf interpreters are welcome.
Accepted For Credit: CSU
An introduction to interpreting in the educational setting with a focus on elementary and secondary levels of education. Emphasis will be on child development through the years, resource development, team building, roles and responsibilities, communicating with children, and situational ethics. (GC)

INT-199E Introduction to Post-Secondary Interpreting
18.00 hrs lecture
Units: 0.50
Corequisite: IPP students must be in their second year; also open to working and deaf interpreters with instructor approval.
Accepted For Credit: CSU
This course is an introduction to interpreting in the post-secondary educational setting. The focus of this course is on the roles and responsibilities of the interpreter, language assessment, resource development, situational ethics, identifying demands and controls in the wide variety of post-secondary educational settings, and team building. (GC)
INT-199F  Introduction to Social Service and Employment  
9.00 hrs lecture  
Units: 0.50  
Prerequisite: INT-145, INT-147, INT-153, INT-199A  
Corequisite: INT-227, INT-245, INT-253 and other INT-199 series courses. Working interpreters and Deaf Interpreters may join with instructor or department chair approval.  
Accepted For Credit: CSU  
This course introduces students to interpreting in the social service and employment setting. Topics include the wide variety of situation and consumers in this setting, environmental, interpersonal considerations, vocabulary and discourse unique to these settings, situational ethics and resources. (GC)

INT-199G  Introduction to Telephone and Video Relay Interpreting  
9.00 hrs lecture  
Units: 0.50  
Prerequisite: INT-227, INT-245, INT-253, and INT-199 series courses. Non-IPP students must have approval of instructor or program director.  
Corequisite: INT-263, INT-295, INT-299 and other INT-199 courses  
Accepted For Credit: CSU  
This course introduces students to interpreting using the telephone and video, interpreting remotely. Unique characteristics of this medium, strategies, discourse styles as well as environmental, interpersonal, paralinguistic and intra-personal considerations will be discussed. Ethics will also be considered. (GC)

INT-199H  Introduction to Mental Health Interpreting  
9.00 hrs lecture  
Units: 0.50  
Prerequisite: INT-245, INT-253, INT-227 and other INT-199 courses  
Corequisite: IPP students must be enrolled in other third and/or fourth semester courses. Working interpreters and Deaf interpreters must get approval of instructor or program director.  
Accepted For Credit: CSU  
This course introduces students to interpreting in the mental health setting. Topics include the wide variety of situations and consumers in the setting, environmental considerations, interpersonal considerations, mental health discourse, situational ethics and resources. (GC)

INT-199I  Introduction to Deaf/Hearing Team Interpreting  
9.00 hrs lecture  
Units: 0.50  
Prerequisite: INT-253  
Corequisite: INT-263, INT-295, INT-299 and other INT-199 courses. Deaf and working interpreters must have approval of instructor or program director.  
Accepted For Credit: CSU  
This course introduces students to working in teams with a hearing and Deaf interpreters. Topics include advocating for the use of Deaf/hearing teams, environmental and interpersonal considerations, team development, negotiating strategies of working together, and ethical and cultural considerations. (GC)

INT-227  Ethics II: Interpreting Ethics and Decision-Making  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: INT-127, INT-145, INT-147, INT-153, and INT-199A  
Corequisite: INT-245, INT-253, and courses offered in the INT-199 series  
Accepted For Credit: CSU  
Though lecture, discussion and role play, this course will cover ethics as it relates to the field of sign language interpreting, the Code of Professional Conduct (CPC) from the Registry of Interpreters for the Deaf (RID), professional behavior, liability and preparation for the ethical portion of the national RID exam. Demand-Control Schema (DCS) will be the lens used to determine effectiveness of actions taken by interpreters. (GR)

INT-245  Phantom Interpreting  
54.00 hrs lab  
Units: 1.00  
Prerequisite: INT-145, INT-147, INT-153, and INT-199A  
Corequisite: INT-253, INT-227, and at least one of the INT-199 courses offered  
Accepted For Credit: CSU  
Students will apply knowledge gained in the first year courses by interpreting live situations on campus and in the community. Students will apply Demand-Control schema analysis of situations, assignment preparation. (GR)

INT-253  Interpreting: English to ASL  
72.00 hrs lecture, 108.00 hrs lab  
Units: 6.00  
Prerequisite: INT-145, INT-147, INT-153, and INT-199A and other courses in the INT-199 series  
Corequisite: INT-237, INT-240, and INT-199 C, D, E  
Accepted For Credit: CSU  
The focus of this course is interpreting from English into ASL. Texts will be analyzed for language use and meaning and interpreted into ASL. Consecutive and simultaneous interpreting will be studied and practiced. (GR)

INT-263  Interpreting Across the Language Continuum  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Corequisite: INT-295, INT-299 and INT-199 series  
Accepted For Credit: CSU  
This focus of this course is to interpret and match a wide range of language varieties that exist in the Deaf community. Monologic and dialogic/interactive texts will be presented. Live and video-taped stimulus will be used. (GR)

INT-295  Interpreting Internship  
243.00 hrs lab  
Units: 4.50  
Prerequisite: Completion of three semesters of IPP courses with grade C or better  
Accepted For Credit: CSU  
This course is designed to provide IPP students exposure to Deaf adults and the role of the interpreter in a variety of settings. Students may be provided the opportunity to do some low-risk interpreting. A weekly seminar is included to process experiences of practicum experience. Repeatable = 1 time (GR)

INT-299  Capstone Course  
54.00 hrs lab  
Units: 1.00  
Prerequisite: INT-227, INT-245, INT-253, and INT-199 series courses  
Corequisite: INT-263, INT-295, and other INT-199 courses  
Accepted For Credit: CSU  
This is the final course of the IPP. Students will interpret analyze and present a piece of work for a panel. Students will also create their exit portfolio. (GR)
JAPANESE

Division: Humanities, Social Sciences, and Mathematics

JPNS-101A Elementary Japanese
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: JPNS-101A or two years of high school Japanese
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
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. (GR)

JPNS-101B Intermediate Japanese
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: JPNS-101A or two years of high school Japanese
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
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)

JPNS-102A Intermediate Japanese
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: JPNS-101B or three years of high school Japanese
Accepted For Credit: CSU & UC
This course is a continuation of JPNS-101B with emphasis on the four areas of listening, speaking, reading, and writing in Japanese, as well as a greater in-depth study of Japanese culture. (GR)

JPNS-102B Intermediate Japanese
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: JPNS-102A
Accepted For Credit: CSU & UC
This course is a continuation of JPNS-102A with emphasis on the four areas of listening, speaking, reading, and writing in Japanese, as well as a greater in-depth study of Japanese culture. (GR)

JOURNALISM

Division: Fine Arts, Business, and Communication Studies

JOUR-101A Newswriting
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A with grade of C or better
Accepted For Credit: CSU & UC
This course trains students in newswriting techniques, interviewing, feature writing, ethics, and legal responsibilities. Online and broadcasting newswriting techniques are included. (GR)

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

JOUR-145 Digital Photojournalism
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: ART-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, 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)

JOUR-146 Photography/Graphic Arts Newspaper Staff
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Cross-referenced Course: ART-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 completion of assignments. Students are also introduced to legal and ethical responsibilities. Repeatable = 3 times to a maximum of 9 units (GC)

JOUR-147 Photography/Graphic Arts Newspaper Staff
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: ART-147
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. Repeatable = 3 times to a maximum of 9 units (GC)

JOUR-148 Photography/Graphic Arts Newspaper Staff
18.00 hrs lecture, 108.00 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)
We swim in an ocean of media. Our thoughts, beliefs, life choices, jobs, government and shopping decisions are all influenced by the media. Most of us complain about it, but we wouldn’t turn the media off, even if we could. Yet we don’t know much about it. Who decides what messages get sent? What do the senders want? How do we process the messages? How does the technology work? Your media exposure will continue for the rest of your life. This class aims to make you a more informed, critical consumer. (GR)

**JOUR-170**  
**Newspaper Writing and Editing Staff**  
9.00 hrs lecture, 27.00 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**  
18.00 hrs lecture, 54.00 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**  
18.00 hrs lecture, 108.00 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**  
9.00 hrs lecture, 27.00 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**  
18.00 hrs lecture, 54.00 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**  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course offers students practical experience in preparing feature, informative, and/or literary materials for the student magazine. They also plan and design the publication and conduct an annual literary-art contest. JOUR-175 is limited to editors. Repeatable = 3 times to a maximum of 9 units for JOUR-173-175 (GR)

**JOUR-176**  
**Advertising Staff**  
9.00 hrs lecture, 27.00 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**  
18.00 hrs lecture, 54.00 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**  
18.00 hrs lecture, 108.00 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)
KINESIOLOGY
Division: Athletics and Exercise Science

KIN-240 Theory of Physical Education, Fitness, and Sport
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
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 course 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)

KIN-241 College Success for Athletes
36.00 hrs lecture
Units: 2.00
Cross-referenced Course: PD-241
Accepted For Credit: CSU
This course is designed for new student-athletes to assist with the adjustment to college level academics and athletics. The focus is on application of learning strategies, academic planning, time management, transfer and eligibility guidelines, life skills and study skills. Additionally, this course will promote realistic expectations of college while understanding what is necessary to succeed as an intercollegiate athlete. (GC)

KIN-242 Sociology of Sport
54.00 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)

KIN-243 Sports Marketing
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BA-143
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)

KIN-244 Sports Management
54.00 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)

KIN-251 Fitness for Life
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This class is designed for students who wish to assess cardiovascular fitness, strength, flexibility, body fat and nutrition, and stress level as a basis for designing and implementing a personal program for aerobic endurance, strength, and flexibility. (GC)

KIN-256 Sports Performance Testing
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: PTA-119
Accepted For Credit: CSU
This course covers assessment methods commonly used to evaluate athletic ability. It covers anaerobic testing methods used to establish baseline, normative, and developmental data. Testing for specific sports such as basketball, football, soccer, and tennis is also covered. Repeatable = 1 time (GR)

KIN-257 Prevention and Care of Athletic Injuries
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: ENGL-151B or equivalent; BIOL-130
Accepted For Credit: CSU & UC
This course is designed to introduce basic care and prevention of athletic injuries. Concepts will include injury recognition, evaluation, management, and rehabilitation. The practical experience will include adhesive taping and protective padding techniques, use of therapeutic modalities, and emergency first aid procedures as applied to athletic injuries. (GR)

KIN-258 Exercise Prescription
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course is designed to introduce principles of exercise prescription and strength and conditioning. Topics will include exercise physiology, exercise prescription for special and general populations, free weight and machine exercise techniques, nutrition and weight management, biomechanical concepts, and emergency and legal issues related to fitness and strength training. This course will also prepare students for the Personal Trainer Examination. (GC)

KIN-261 Mental Aspects of Sport
36.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU
This course will develop the connection between the mental and physical aspects of competition and the ways to enhance performance. Stress reduction techniques, goal setting, imagery, and visualization will be covered as will training methods for both the body and mind. Repeatable = 2 times (GC)

KIN-381 Clinical Experiences in Sports Medicine I
54.00 hrs lab
Units: 1.00
Advisory: KIN-257
Accepted For Credit: CSU
This course provides students with practical exposure to the athletic training room setting. Students will participate in the treatment, evaluation, and rehabilitation of student athletes injured during practice or competition. Students will practice the application of athletic training procedures according to protocols established by the athletic trainer. Repeatable = 3 times (CR)
KIN-382  Clinical Experiences in Sports Medicine II
108.00 hrs lab
Units: 2.00
Advisory: KIN-257
Accepted For Credit: CSU
This course provides students with practical exposure to the athletic training room setting. Students will participate in the treatment, evaluation, and rehabilitation of student athletes injured during practice or competition. Students will practice the application of athletic training procedures according to protocols established by the athletic trainer. Repeatable = 3 times (CR)

LSP-111  Job Seeking Skills
18.00 hrs lecture
Units: 1.00
This course is for students who are Department of Rehabilitation (DoR) clients involved in the DoR/Ohlon College WorkAbility III (WAIll) partnership. The course provides students with the skills necessary to seek and obtain employment. The course will discuss resume and cover letter writing, interviewing skills, ADA laws and employment rights, goals assessment, workplace behavior, and job retention. Students will complete a portfolio which includes a resume, cover letter, letters of recommendation, and sample application. Not applicable to the associate degree. (CR)

LSP-365  Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to Associate degree. Repeatable = 3 times (NG)

LEARNING SKILLS PROGRAM
Division: Deaf Studies

LSP-101  Learning Skills: Reading and Writing
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
This course assists Learning Disabled students in developing skills for the successful completion of English courses. Focus is on creating a more thorough understanding of grammatical concepts while strengthening basic writing skills. Compensatory techniques will be taught with an emphasis on multi-modal learning. Not applicable to the associate degree. Repeatable = 5 times (GR)

LSP-102  Learning Skills: Quantitative Reasoning
54.00 hrs lecture
Units: 3.00
This course assists Learning Disabled students in developing skills for the successful completion of math courses. Focus is on creating a more thorough understanding of math concepts through practice and multi-modal learning. Not applicable to the associate degree. Repeatable = 5 times (GR)

LSP-103  Advanced Writing Fundamentals
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Prerequisite: Approval of DSPS counselor
This course assists students with learning disabilities in building skills in English grammar and usage as needed for writing clear paragraphs and informal essays. Concentration is on raising the level of writing to that necessary for success in mainstream college composition classes. Not applicable to the associate degree. (GR)

LSP-104  Reading Comprehension
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Prerequisite: Prior approval of DSPS counselor
This course focuses on building reading competency for students with disabilities. The goal is to increase reading proficiency, vocabulary awareness and comprehension/ retention skills to the level needed to be successful in college literature and content courses. Not applicable to the associate degree. (GR)

LIBRARY SCIENCE
Division: Learning Resources and Academic Technology

LS-101  Steps to Successful Research
18.00 hrs lecture
Units: 1.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & 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 basic computer literacy skills working in a Windows environment. (CR)

LS-151  Internet for Research
9.00 hrs lecture
Units: 0.50
Cross-referenced Course: CS-151
Advisory: CAOT-153 or equivalent
Accepted For Credit: CSU
This course presents instruction in the use of the Internet as an alternative 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)

Did you know???
In 2007-2008 there were 2,772,250 full-year students attending California Community Colleges.
Source: Community College League of California
MATHEMATICS

Division: Humanities, Social Sciences, and Mathematics

MATH-101A Calculus with Analytic Geometry
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-188 with C or better or equivalent
Accepted For Credit: CSU & UC
This course includes review of functions and graphs, elements of analytic geometry, limits, continuity, differentiation of algebraic, trigonometric, logarithmic, exponential, and inverse trigonometric functions, applications of the derivative, and introduction to integration and some applications of the definite integral. (GR)

MATH-101B Calculus with Analytic Geometry
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101A with a C or better or equivalent
Accepted For Credit: CSU & UC
This course includes techniques of integration, related applications, infinite series, an advanced treatment of conics, parametric equations, and polar coordinates. (GR)

MATH-101C Calculus with Analytic Geometry
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101B with C or better or equivalent
Accepted For Credit: CSU & UC
This course includes vector analysis, functions of several variables, partial derivatives, multiple integration, integration of vector valued functions, and applications. (GR)

MATH-103 Introduction to Linear Algebra
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-101B with a grade of C or better or equivalent or placem ent evaluation
This course includes the study of operations using signed numbers, equations and inequalities, graphs of linear equations, system s of equations, exponents, polynomials, factoring, and rational expressions. Not applicable to the associate degree. (GR)

MATH-104 Differential Equations
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101B with C or better
Accepted For Credit: CSU & UC
This course includes the study of the traditional topics in ordinary differential equations as well as series solutions, Laplace transforms, systems of equations, numerical methods, and selected applications. (GR)

MATH-111 Introduction to Matlab
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-101A
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course provides students with an introduction to the software package Matlab. Topics include programming, two and three dimensional graphing, data import and export, curve fitting, recursion, and applications to calculus. (GR)

MATH-151A Algebra I (Part 1)
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-190 with grade of C or better or equivalent or placem ent 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. Not applicable to the associate degree. (GR)

MATH-151B Algebra I (Part 2)
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-151A
This course includes exponents, polynomials, factoring, rational expressions, and applications. Not applicable to the associate degree. (GR)

MATH-152 Algebra II
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-151 or MATH-151A and MATH-151B with a grade of C or better or equivalent or placem ent evaluation
This course includes the study of systems of equations, relations, functions and their graphs, conic sections, exponential and logarithmic functions, arithmetic and geometric sequences and series, and the binomial theorem. (GR)

MATH-152A Algebra II (Part 1)
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-151 or MATH-151A and MATH-151B with a grade of C or better or equivalent or placem ent evaluation
This course includes the study of systems of linear equations, inequalities, radical expressions and equations, problem solving, and complex numbers. (GR)

MATH-152B Algebra II (Part 2)
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-152A with a grade of C or better or equivalent or placem ent evaluation
This course includes the study of relations, functions, and their graphs, quadratic functions and equations, exponential and logarithmic functions, conic sections, sequences, series, sigma notation, and the binomial expansion. (GR)

MATH-153 Intermediate Algebra
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-151 or MATH-151A and MATH-151B with a grade of C or better or equivalent or placem ent evaluation
This course includes the study of relations and functions and their graphs, quadratic equations, parabolas, exponential and logarithmic functions, and sigma notation. (GR)
MATH-155 Math for the Associate Degree
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-151 or placement
This course meets the minimum general education mathematics requirement. It uses the concepts of beginning algebra (Algebra I), problem solving skills, and analytical thinking to investigate areas such as consumer concerns, recreational math, probability, math in sports, statistics, geometry, trigonometry, and math in the work place. (GR)

MATH-156 Math for Liberal Arts
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-152 or MATH-153 with grade of C or better or equivalent or placement evaluation
Accepted For Credit: CSU & UC
This course is designed for liberal arts and education students and uses the concepts learned in Intermediate Algebra. It is a survey course of college mathematics with emphasis placed on the nature of mathematics, problem solving, and thinking patterns. Topics covered will be selected from the areas of sets and logic, methods of proof, elements of probability and statistics, geometry, systems of numeration, math of finance, basic trigonometry and calculus, math history, and linear programming. (GC)

MATH-159 Introduction to Statistics
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-152 or MATH-153 with grade of C or better or equivalent or placement evaluation
Accepted For Credit: CSU & UC
This course examines the elements of probability, binomial and normal distributions, measures of location, measures of variation, hypothesis testing, point and interval estimation, small sample tests, linear correlation, analysis of variance, and use of technology for statistical applications. (GR)

MATH-163 Discrete Mathematics for Computers
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-113
Prerequisite: MATH-188 or equivalent
Advisory: MATH-101A and MATH-101B
Accepted For Credit: CSU & UC
This course is designed for majors in mathematics and computer science. It is the first course for students in discrete mathematics. A main goal of this course is to teach students to think abstractly. This requires that students learn to use logically valid different methods of proof including mathematical induction. Topics include logic, proofs, sets, relations, recurrence relations, graphs, trees, and combinatorics. Applications include Boolean Algebra, logic circuits, O-Notation, and Automata. (GC)

MATH-166 Finite Mathematics
72.00 hrs lecture
Units: 4.00
Prerequisite: MATH-152 or equivalent with grade of C or better
Accepted For Credit: CSU & UC
This course includes the core concepts of set theory, systems of linear equations and inequalities, linear programming, matrices, math of finance with applications to business and social sciences, and an introduction to probability and decision making. (GR)

MATH-167 Calculus for Business and Social Science
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-152 or equivalent with grade of C or better
Accepted For Credit: CSU & UC
This course includes the concepts of relations, algebraic, exponential and logarithmic functions, differential and integral calculus, functions of several variables and partial derivatives, with applications to business, finance, and the social sciences. (GR)

MATH-171 Mastering Math Skills: Fractions
27.00 hrs lab
Units: 0.50
Students will refresh their knowledge of operations with fractions and the applications of fractions. It is intended for students currently enrolled in MATH-151 or MATH-151A or MATH-151B who feel they will benefit from a review of this material. Not applicable to the associate degree. Repeatable = 2 times (GC)

MATH-172 Mastering Math Skills: Whole Numbers, Decimals and Percentages
27.00 hrs lab
Units: 0.50
Students will refresh their knowledge of operations with whole numbers, decimals, and percentages and their applications. It is intended for students currently enrolled in MATH-151 or MATH-151A or MATH-151B who feel they will benefit from a review of this material. Not applicable to the associate degree. Repeatable = 2 times (GC)

MATH-181 Trigonometry
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-152 with grade of C or better or equivalent or placement evaluation
Accepted For Credit: CSU
This course focuses on understanding the definitions and principles of trigonometry and their applications to problem-solving. (GR)

MATH-188 Pre-Calculus
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-181 with C or better or equivalent
Accepted For Credit: CSU & UC
This course is a review of the concepts and skills necessary for Calculus. The course includes the theory and graphing of elementary, exponential, and logarithmic functions; a review of trigonometry; systems of linear and quadratic equations; and an introduction to sequences and series. (GR)

MATH-190 Basic Mathematics
54.00 hrs lecture
Units: 3.00
This course includes a study of the arithmetic of whole numbers, fractions, and decimals; applications of arithmetic-ratio, percents, word problems, and U.S. and metric systems of measurement; statistical graphs, measurement of central tendency and word problems employing those concepts; and an introduction to algebra and geometry. Not applicable to the associate degree. (GR)

MATH-190A Basic Mathematics (Self-Paced)
18.00 hrs lecture
Units: 1.00
This self-paced course covers the arithmetic of whole numbers, fractions, and decimals. Completion of MATH-190A, MATH-190B, and MATH-190C is equivalent to MATH-190. Not applicable to the associate degree. (GR)
MATH-190B Basic Mathematics (Self-Paced)
18.00 hrs lecture
Units: 1.00
This self-paced course covers ratios, proportions, percents, the U.S. Customary and metric systems of measurement, statistical graphs, measurements of central tendency, and word problems employing those concepts. Completion of MATH-190A, MATH-190B, and MATH-190C is equivalent to MATH-190. Not applicable to the associate degree. (GR)

MATH-190C Basic Mathematics (Self-Paced)
18.00 hrs lecture
Units: 1.00
This self-paced course covers introductory concepts from algebra and geometry. Completion of MATH-190A, MATH-190B, and MATH-190C is equivalent to MATH-190. Completion of MATH-190C can be used as the prerequisite of MATH-151 or MATH-151A/MATH-151B (Algebra I). Not applicable to the associate degree. (GR)

MATH-196 Geometry
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-151 or equivalent
Students will study geometric concepts, deductive proofs, and logical arguments, and develop skills to solve problems and construct proofs. The topics include lines, angles, circles, triangles, parallelism, similarity, congruency, areas, volumes, and logic. (GR)

MATH-199 Success in Math
18.00 hrs lecture
Units: 1.00
Corequisite: In order to practice and learn the strategies to succeed in math in MATH-199, students must be enrolled in a math class in which they can use the strategies
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 the associate degree. Repeatable = 2 times (GR)

MATH-365 Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial counselor and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

MATH-365 Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial counselor and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

MULTIMEDIA
Division: Fine Arts, Business, and Communication Studies

MM-102A Multimedia I
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CS-101 or equivalent
Advisory: CS-102 or CS-104A or CS/ART/BA/GA-160A
Accepted For Credit: CSU
Explore technical, artistic, and creative ways to produce animations, images, and basic interactive multimedia projects using industry standard software such as Photoshop and Flash. Topics include typography, design principles, multimedia terminology, copyright issues, image and sound manipulation. (GC)

MM-102B Multimedia II
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MM-102A or equivalent
Accepted For Credit: CSU
This course covers the skills necessary to use digital video, sound, animations, graphics, and programming to develop educational courseware. An emphasis will be put on group project development in cooperation with a content expert and an instructional designer. Students’ individual strengths will be used in groups to create educational and training models. Repeatable = 2 times (GC)

MM-103A Introduction to Flash: Animation
4.50 hrs lecture, 13.50 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
4.50 hrs lecture, 13.50 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
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-103A or 103B or equivalent
Accepted For Credit: CSU
First, learn how to create interactive Flash Sites for the Web using multiple timelines, nested movies, variables, text fields, and preloaders. Then learn ActionScript, the powerful programming language in Flash, to add complex interaction to projects. No prior programming experience is required; however, familiarity with Flash is essential. Repeatable = 2 times (GC)

“Ohlone College is giving me a second chance at recreating my life according to what I had always wanted for myself: a satisfying career in Nursing, and the chance to go as far as possible in my education for this career.”

Lisa Munn
Ohlone College Nursing Major
Abe and Hannah Hochler Memorial Scholarship Recipient
Fall 2008
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>UC Acceptance</th>
<th>Prerequisites/Advisory</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM-105</td>
<td>Web Site Design</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-105 or equivalent course (to be approved by instructor)</td>
</tr>
<tr>
<td>MM-106</td>
<td>Advanced Web Site Design</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-107</td>
<td>Introduction to Dreamweaver</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-109</td>
<td>Digital Video for Web and DVD</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-110</td>
<td>Introduction to After Effects</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-111</td>
<td>Textures for 3D</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-112</td>
<td>3D Animation</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-113</td>
<td>Advanced 3D Modeling and Animation</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-114</td>
<td>Introduction to Video Game Design</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-115</td>
<td>Video Game Development</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-116</td>
<td>Designing an On-Line Course</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
<tr>
<td>MM-117</td>
<td>Multimedia Portfolio Development</td>
<td>2.00</td>
<td>For Credit: CSU</td>
<td>MM-102A</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**MM-105 Web Site Design**
4.00 hrs lecture, 5.00 hrs lab  
Students will learn design principles to create web sites of their choice using the latest software applications. Students will also learn to analyze web sites created in a wide range of fields and various cultures. Topics include CSS, typography, color, copyright issues, accessibility, contracts, digital imaging optimization, and techniques to display sound, animation and video. Repeatable = 2 times (GC)

**MM-106 Advanced Web Site Design**
3.00 hrs lecture, 5.00 hrs lab  
Prerequisite: MM-105 or equivalent course (to be approved by instructor)
Learn advanced techniques in web site design employing industry standard software like Dreamweaver, Photoshop and Fireworks. This course focuses on CSS for layout, style, and navigation. Other topics include web graphics, forms, Ajax within the Spry framework, dynamic image galleries, accessibility, and professional practices in web site design. (GC)

**MM-107 Introduction to Dreamweaver**
4.50 hrs lecture, 13.50 hrs lab  
This is an introductory course in creating Web pages with Macromedia Dreamweaver. Repeatable = 1 time (GC)

**MM-109 Digital Video for Web and DVD**
5.00 hrs lecture, 5.00 hrs lab  
Cross-referenced Course: BRDC-110  
Advisory: MM-102A  
Students will learn creative techniques to shoot, edit, and produce short videos employing digital camcorders, microphones, lights, and a variety of video editing software. Topics include camera shots, transitions, composition, video file formats, compression, special effects, and producing video for the YouTube, websites, and DVDs. Repeatable = 1 time (GC)

**MM-110 Introduction to After Effects**
4.50 hrs lecture, 13.50 hrs lab  
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-111 Textures for 3D**
3.00 hrs lecture, 5.00 hrs lab  
Advisory: MM-116 or MM-102A  
Students will learn different techniques to enhance 3D objects and environments using 3D modeling and 2D paint software. The topics covered are painting textures, manipulating digital images, texture mapping, lighting techniques, camera shots, applying principles of art and design to 3D imagery, and rendering images for multimedia and print. Repeatable = 1 time (GC)

**MM-112 3D Animation**
3.00 hrs lecture, 5.00 hrs lab  
Advisory: CS-101 or equivalent  
Acceptance: 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)
MUS-100  Survey of the Arts
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ART-100, IS-100, TD-100
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
In this course theatre, art, and music are explored through discussion, historical review, and contemporary issues. The purpose of this course is to increase students’ understanding and enjoyment of the arts. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-101  Introduction to Music – Western Classical Music
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course examines the study of western classical music as cultural expression. It is designed for students looking for a general survey course in music as well as those who simply want to increase their musical understanding. The course considers techniques inherent in the process of commercial song writing. Students will learn to write songs, listen to their projects on the computer, edit the songs using standard music sequencing and notation software, compare the outcomes with standard professional compositional criteria, and record the final edited projects. Repeatable = 1 time (GC)

MUS-102  Music Appreciation
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-103  Fundamentals of Music
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This is a basic course for students investigating the study of musical notation, keys, scales, and chords, along with other elements of basic musicianship. This course is useful in working with children and youth. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-104  Music of World Cultures
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
A survey of traditional and contemporary music from around the world including, but not limited to: Africa, India, Indonesia, South/Central America, Caribbean, Europe, China, Japan, and the United States. This course will deal with the traditional instruments and ensembles, as well as vocal techniques and performance practices particular to each region. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-108  Song Writing
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course will expose students to the compositional techniques inherent in the process of commercial song writing. Students will learn to write songs, listen to their projects on the computer, edit the songs using standard music sequencing and notation software, compare the outcomes with standard professional compositional criteria, and record the final edited projects. Repeatable = 1 time (GC)
MUS-110A Advanced Harmony
54.00 hrs lecture
Units: 3.00
Corequisite: MUS-111A
Accepted For Credit: CSU & UC
This course is a 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-110B Harmony
54.00 hrs lecture
Units: 3.00
Prerequisite: MUS-110A or equivalent
Corequisite: MUS-111B
Accepted For Credit: CSU & UC
This course includes the study of diatonic harmony 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-110C Advanced Harmony
54.00 hrs lecture
Units: 3.00
Prerequisite: MUS-110B
Corequisite: MUS-111C
Accepted For Credit: CSU & UC
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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-110D Advanced Harmony
54.00 hrs lecture
Units: 3.00
Prerequisite: MUS-110C
Corequisite: MUS-111D
Accepted For Credit: CSU & UC
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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-111A Musicanship
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Corequisite: MUS-110A
Accepted For Credit: CSU & UC
This course develops facility in sight singing, ear training, and the ability to take musical dictation. (GR)

MUS-111B Musicanship
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: MUS-111A or equivalent
Corequisite: MUS-110B
Accepted For Credit: CSU & UC
This course develops facility in sight singing, ear training, and the ability to take musical dictation. (GR)

MUS-111C Advanced Musicanship
18.00 hrs lecture, 36.00 hrs lab
Units: 3.00
Prerequisite: MUS-111B or equivalent
Corequisite: MUS-110C
Accepted For Credit: CSU & UC
This course covers sight singing and reading of materials employed in MUS-110C. (GR)

MUS-111D Advanced Musicanship
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: MUS-111C or equivalent
Corequisite: MUS-110D
Accepted For Credit: CSU & UC
This course covers sight singing and reading of materials employed in MUS-110D. (GR)

MUS-112A ProTools 101
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MUS-112A or equivalent
Accepted For Credit: CSU
The ProTools 101: Introduction to ProTools covers basic ProTools principles, giving you what you need to complete a ProTools project, from initial set up to final mixdown. Whether your project involves recording live instruments, MIDI sequencing of software synthesizers, or audio looping, this course will give you the basic skills to succeed. (GR)

MUS-112B ProTools 110
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MUS-112A or equivalent
Accepted For Credit: CSU
Digidesign ProTools 110: Essentials of ProTools provides a more detailed look at the ProTools system. This course covers all the key concepts and skills needed to operate a ProTools system. The course provides the foundation for the later 200-series ProTools Music Production and Post Production courses. Repeatable = 1 time (GR)

MUS-112C Pro Tools 201
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: MUS-112A, MUS-112B, or equivalent
Accepted For Credit: CSU
Pro Tools 201: Pro Tools Production Essentials covers the core concepts and skills needed to operate a DigiDesign Pro Tools/HD system in a professional studio environment. Topics include advanced selection and editing techniques, using automation, mixing, and in-depth plug-in usage. (GR)

MUS-113 Studio Recording
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Cross-referenced Course: BRDC-132
Accepted For Credit: CSU
This course is an introduction to the recording studio. The course follows the path of audio signals through the microphone, mixer, signal processors, tape recorder, and monitoring stations. The course explores various types of microphones, the functions of mixing boards, the characteristics of signal processors, and recording techniques. (GC)
MUS-114  Create a CD  36.00 hrs lecture, 54.00 hrs lab  Units: 2.00  Accepted For Credit: CSU  This course covers post-recording CD creation and offers students a chance to learn and explore audio file editing and mastering, CD burning, Mp3 ripping, and complete jewel box artwork. Audio source material will include CD tracks, Mp3's, and various 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  36.00 hrs lecture, 54.00 hrs lab  Units: 3.00  Advisory: MUS-112A  The lecture component covers basic techniques for live concert sound reinforcement, including basic sound system theory/applications and study of individual sound system component operation (microphones, mixers, effects, power amplifiers, speaker systems). Lab presents field opportunities for students to apply knowledge in concert situations. Repeatable = 1 time (GR)  

MUS-120A  History of Trends in Music Literature  54.00 hrs lecture  Units: 3.00  Accepted For Credit: CSU & UC  This course is a historically oriented study of music in the western world from earliest beginning, through the medieval, Renaissance (Monteverdi), and Baroque (Bach) periods. Music majors required to take course for letter grade only. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)  

MUS-121  History of Jazz  54.00 hrs lecture, 18.00 hrs lab  Units: 3.00  Advisory: Eligible for ENGL-151B and ENGL-163  Accepted For Credit: CSU & UC  This course involves the study of jazz, its historical background, and its development in the world. The course is open to all students. (GC)  

MUS-122  A History of Early Rock and Roll: Music and Culture of the 1950's  54.00 hrs lecture  Units: 3.00  Cross-referenced Course: HIST-141, IS-142  Advisory: ENGL-101A  Accepted For Credit: CSU & UC  This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950's -- Bill Haley, Fats Domino, Elvis Presley, Chuck Berry, and Little Richard -- will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student's appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and American culture. The course will chart how rock and roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)  

MUS-123  History of Rock and Roll: Music and Culture of the 1960's  54.00 hrs lecture  Units: 3.00  Cross-referenced Course: HIST-142, IS-143  Advisory: ENGL-101A  Accepted For Credit: CSU & UC  This course charts the evolution of Rock and Roll music from the late 1950's through the 1960's focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students' appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society. (GC)  

MUS-125  History of Rock and Roll: Music and Culture Since 1970  54.00 hrs lecture  Units: 3.00  Cross-referenced Course: HIST-143  Advisory: Eligible for ENGL-151B and ENGL-163  Accepted For Credit: CSU & UC  This course looks at the development of popular music and its relationship to general culture and society since 1970. It will include identification and analysis of art rock, disco, new wave, reggae, rap, hip-hop, worldbeat, and other musical genres through online reading, lectures, and in-class demonstrations. (GR)  

MUS-160A  Beginning Class Piano  18.00 hrs lecture, 36.00 hrs lab  Units: 1.00  Accepted For Credit: CSU & UC  This course consists of class piano lessons for beginners and students who wish to develop elementary skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)  

MUS-160B  Class Piano  18.00 hrs lecture, 36.00 hrs lab  Units: 1.00  Advisory: MUS-160A or equivalent  Accepted For Credit: CSU & UC  This course consists of class piano lessons for beginners and students who wish to develop elementary skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)
MUS-161A Class Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161A
Accepted For Credit: CSU & 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
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161B
Accepted For Credit: CSU & 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-160C Class Piano
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160B or equivalent
Accepted For Credit: CSU & UC
This course consists of intermediate level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-160D Class Piano
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160C or equivalent
Accepted For Credit: CSU & UC
This course consists of intermediate level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-160E Piano Repertoire
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160D or equivalent
Accepted For Credit: CSU & UC
This course consists of intermediate to advanced level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-160F Piano Repertoire
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160E or equivalent
Accepted For Credit: CSU & UC
This course consists of intermediate to advanced level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-161C Class Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161C
Accepted For Credit: CSU & 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
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161D
Accepted For Credit: CSU & 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
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161E
Accepted For Credit: CSU & 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
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161F
Accepted For Credit: CSU & 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
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160A
Accepted For Credit: CSU & 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-162B Class Voice – Beginning
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: MUS-162A
Advisory: MUS-160A
Accepted For Credit: CSU & 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)
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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-162D Class Voice – Intermediate
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: MUS-162C
Corequisite: MUS-166B
Accepted For Credit: CSU & 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-162E Vocal Repertoire
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: MUS-162D
Corequisite: MUS-166C
Accepted For Credit: CSU & 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-162F Vocal Repertoire
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: MUS-162E
Corequisite: MUS-166D
Accepted For Credit: CSU & 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-163A Woodwind Instruments (Flute, Saxophone, Clarinet, Oboe, Bassoon)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & 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)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-163A or equivalent
Accepted For Credit: CSU & UC

This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-163C Woodwind Instruments (Flute, Saxophone, Clarinet, Oboe, Bassoon)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-163B or equivalent
Accepted For Credit: CSU & UC

This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-163D Woodwind Instruments (Flute, Saxophone, Clarinet, Oboe, Bassoon)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-163C or equivalent
Accepted For Credit: CSU & UC

This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-164A Brass Instruments (Horn, Trumpet, Trombone, Tuba)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & 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)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-164A or equivalent
Accepted For Credit: CSU & UC

This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-164C Brass Instruments (Horn, Trumpet, Trombone, Tuba)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-164B or equivalent
Accepted For Credit: CSU & UC

This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-164D Brass Instruments (Horn, Trumpet, Trombone, Tuba)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-164C or equivalent
Accepted For Credit: CSU & UC

This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-165A Percussion Instruments
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC

This course involves class instruction on all orchestral-percussion instruments. MUS-165 A is open to all students. No experience is necessary. (GC)

MUS-165B Percussion Instruments
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-165A or equivalent
Accepted For Credit: CSU & UC

This course involves class instruction on all orchestral-percussion instruments. (GC)
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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)
MUS-352B  Advanced Jazz/Rock Combos  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Advanced Live-Performance Workshop for all instrumentalists and singers. This class is a continuation of the concepts covered in MUS-352 with greater emphasis on soloing, arranging, music theory, and contemporary performance practices. Repeatable = 3 times (GC)

MUS-354A  String Techniques – Ohlone Chamber Orchestra  
54.00 hrs lab  
Units: 0.50  
Prerequisite: Demonstrate ability to read music  
Accepted For Credit: CSU & UC  
This course involves class instruction on all string instruments. Repeatable = 3 times (GC)

MUS-355  College Chorus  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This choir is a predominately campus (full-time student) organization for the beginning choral singer. It is a non-audition choir which performs with the Chorale and Symphonic Choir as well as its own performance opportunities. Repeatable = 3 times (GC)

MUS-356  Chamber Singers  
54.00 hrs lab  
Units: 1.00  
Prerequisite: Audition  
Advisory: Ability to read music  
Accepted For Credit: CSU & UC  
This course is an audition-only choir ensemble of trained community/campus singers who specialize in choral music from all eras of Western European music history. The choir is limited in size, but enrollment is open to all qualified singers. Attendance at all rehearsals and concerts is required. Repeatable = 3 times (GC)

MUS-358  Community Chorale  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course is a large, "oratorio" style choir designed for the campus/community singer. It is non-audition choir for those interested in singing with a large ensemble. Repeatable = 3 times (GC)

MUS-365  Supervised Tutoring  
90.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Repeatable = 3 times (NG)

MUS-367  Women’s Chorus  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This choir is open to all female members of the campus and the community. The course will concentrate on music designed for this gender-specific ensemble. Students will be required to attend all rehearsals and concerts programmed for this group. Little or no prior choral experience is needed. Repeatable = 3 times (GC)

MUS-368  Men’s Chorus  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This choir is open to all male members of the campus and the community. The course will concentrate on music designed for this gender-specific ensemble. Students will be required to attend all rehearsals and concerts programmed for this group. Little or no prior choral experience is needed. Repeatable = 3 times (GC)

MUS-369  Jazz, Rock, Popular, Blues Piano  
18.00 hrs lecture, 36.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course is a basic techniques and forms study of the applied improvisation techniques of Jazz, Rock, Pop, Fusion, and Blues piano. Repeatable = 3 times (GR)

MUS-370  Symphonic Band  
54.00 hrs lab  
Units: 0.50  
Prerequisite: Ability to read music  
Accepted For Credit: CSU & UC  
This course includes the study and performance of large scale symphonic band literature. Emphasis will be placed on major composer repertoire, scored for an ensemble with multiple part duplication. Attendance at scheduled rehearsals and performances is required. Repeatable = 3 times (GC)

MUS-371  Mixed Wind Ensemble  
54.00 hrs lab  
Units: 0.50  
Prerequisite: Ability to read music  
Accepted For Credit: CSU & UC  
This course includes the study and performance of “one player per part” wind literature. Emphasis will be placed on solo preparation and execution. Attendance at scheduled rehearsals and performances is required. Repeatable = 3 times (GC)

MUS-374  Community Orchestra  
54.00 hrs lab  
Units: 0.50  
Prerequisite: Demonstrate ability to read music  
Accepted For Credit: CSU & UC  
This course features the study and performance of both chamber and full symphonic orchestra repertoire. The literature represents all stylistic periods. Repeatable = 3 times (GC)

MUS-380  Musical Theatre Workshop I (Principals)  
54.00 hrs lab  
Units: 1.00  
Prerequisite: Audition and casting role in current musical  
Accepted For Credit: CSU & UC  
This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance. Specific instruction will be given in the movement and music for the leading members of the cast. Repeatable = 3 times (GC)

MUS-381  Musical Theatre Workshop II (Chorus)  
54.00 hrs lab  
Units: 1.00  
Prerequisite: Audition and casting role in current musical  
Accepted For Credit: CSU & UC  
This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance. Specific instruction will be given in movement and music for members of the chorus. Repeatable = 3 times (GC)
NURSING
Division: Health Sciences and Environmental Studies

NUR-115M LVN Bridge to Registered Nursing
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Prerequisite: Admission to the LVN-RN Mobility Option
This course is required of all students admitted to the LVN-RN Mobility Option. Content includes the nursing process as it applies to adaptation theory of nursing practice, LVN role transition to registering nursing, assessment skills, IV therapy, math for medications, basic procedures, and care planning. This course is taught in a self-paced modular format. Repeatable = 1 time (GR)

NUR-115P Maternal-Child Review
90.00 hrs lecture
Units: 2.50
Advisory: Eligible for ENGL-101A
NUR-115P is a review of the care of the child-bearing, child rearing family. The nursing roles of provider and manager of care and member of the profession are explored in meeting the needs of patients in labor and delivery, post-partum, the newborn nursery, and pediatrics. 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
27.00 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. Repeatable = 1 time (CR)

NUR-117 Critical Thinking Development-Intensive
27.00 hrs lab
Units: 0.50
Corequisite: Concurrent enrollment in the Nursing Program (NUR-101 through NUR-109)
This course is designed for students concurrently enrolled in the nursing program. Weekly contact hours are 1.5 lab hours online and by arrangement. This course focuses on developing and/or enhancing critical thinking skills through improving online test-taking skills with assessment techniques and repetitive testing; virtual clinical excursions that integrate problem-solving and clinical prioritization; and application of theory to the clinical setting. Repeatable = 3 times (GC)

NUR-118 Strategies for Success
9.00 hrs lecture
Units: 0.50
This course introduces basic study skills necessary for success in the nursing program. Understanding test-taking format and practice tests with NCLEX-type questions will be offered to improve student test-taking success. Not applicable to the associate degree. Repeatable = 3 times (GC)

NUR-119 Strategies for the RN Student
36.00 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-301 Foundations of Nursing
54.00 hrs lecture, 135.00 hrs lab
Units: 5.50
Prerequisite: Admission to the Registered Nursing Program
Advisory: CFS-109 and PSY-108 must be completed by the end of the second semester of the Registered Nursing Program Accepted For Credit: CSU
NUR-301 is the first course in the nursing sequence. Students are introduced to the theory and practice of nursing based on the adaptation model. A focus of this course is assessment of patients’ physical and psychological adaptation to health and illness across the adult life span, including variations for the geriatric client. The health-illness continuum is explored within the context of the health care delivery system. Common health problems, which adult and geriatric clients have developed adaptive responses, are introduced. Students begin the socialization process into the role of the registered nurse. A special emphasis is placed on the nurse as communicator and critical thinker in a culturally diverse setting. The definition of cultural diversity includes ethnic, cultural, and psychological effects in response to wellness, illness, health practices, and value systems among cultural groups. This course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to variations in concept of health and illness, use of health care delivery systems, communication differences, and barriers such as cultural groups, variances in time, and personal space. Simulated practice of fundamental nursing skills in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)
NUR-302  Nursing Care of the Medical-Surgical Patient I
54.00 hrs lecture, 135.00 hrs lab
Units: 5.50
Prerequisite: NUR-301 with grade of C or better
Advisory: CFS-109 and PSY-108 must be completed by the second semester of the Nursing Program
Accepted For Credit: CSU
NUR-302 is the second course in the nursing sequence. The focus of this course is advanced concepts in nursing care of the medical-surgical patient experiencing chronic physical and psychological changes related to cardiovascular, respiratory, endocrine-protective, and ingestion and elimination disorders. Issues surrounding chronicity and nursing care of high-risk population will be explored. Students are introduced to the nursing role with the pre-operative, intra-operative, and post-operative patient. Pharmacology is expanded in this course and addressed in each subsequent course. The course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural beliefs related to health care practices of the multicultural individual experiencing chronic disease. Simulated practice of nursing skills is in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)

NUR-303  Nursing Care of Women and Children
72.00 hrs lecture, 216.00 hrs lab
Units: 8.00
Prerequisite: NUR-302 with grade of C or better
Advisory: CFS-109 and PSY-108 must be completed by the end of the second semester of the Nursing Program
Accepted For Credit: CSU
NUR-303 is the third course in the nursing sequence. The focus of this course is on the nursing process and adaptation model as it relates to the childbearing, child rearing family. The nursing roles of provider and manager of care and as member of the profession are explored in meeting the needs of patients in women's health care, labor and delivery, post-partum, the newborn nursery, and pediatrics. Lecture classes are strongly augmented by discussion and extensive video and computer program components. The content includes pathophysiology, nursing implications of diagnostic tests, and related pharmacology. Students assess patients, identify nursing diagnosis, implement and evaluate nursing interventions to promote adaptive responses in women and children experiencing alterations in physiologic and psychosocial modes. The course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural and ethnic childbearing beliefs regarding perception of pregnancy, beliefs about labor and delivery, and multicultural practices in the post-partum care of the mother and the newborn. Additionally, this course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to childbearing that have an impact on the hospitalized child and his family; cultural responses to child abuse and the child with congenital anomalies; and multicultural education of families. Simulated practice of nursing skills in a multimedia setting with the use of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital and community setting. (GR)

NUR-304  Nursing Care of the Medical-Surgical Patient II
45.00 hrs lecture, 135.00 hrs lab
Units: 5.00
Prerequisite: NUR-304 with grade of C or better; CFS-109, PSY-108 with grades of C or better
Accepted For Credit: CSU
NUR-304 is the fourth course in the nursing sequence. The focus of this course is advanced concepts in nursing care of the medical-surgical patient experiencing acute physical and psychological changes related to cardiovascular, respiratory, endocrine-protective, and ingestion and elimination disorders. Issues surrounding acute nursing care of high-risk population and the complexity of oncology nursing will be explored. Students will continue to learn the nursing role with the pre-operative, intra-operative, and post-operative patient. Pharmacology is expanded in this course and addressed in each subsequent course. The course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to health care practices of the multicultural individual experiencing acute illness and disease. Simulated practice of nursing skills is in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)

NUR-305  Nursing Care of the Medical-Surgical Patient III
45.00 hrs lecture, 135.00 hrs lab
Units: 5.00
Prerequisite: NUR-305 with grade of C or better
Accepted For Credit: CSU
NUR-305 is the fifth course in the nursing sequence. The focus of this course is on nursing care issues related to the advanced management of patients with alterations of cardiovascular, respiratory, endoprotective, elimination, and neuro/sensation systems of adult and geriatric patients. Critical thinking will be promoted by assisting the 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 adult and geriatric patients experiencing complex physiologic and psychosocial alterations of the cardiovascular, respiratory, renal, endoprotective, and neurological systems. This course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs experiencing physiological problems related to the cardiac, respiratory, renal, and neurological systems. Simulated practice of related skills in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the acute care hospitals. (GR)

Did you know???

University of California, Berkeley is the most popular UC campus for Ohlone transfer students.
San José State University is the most popular CSU campus for Ohlone transfer students.
NUR-306 Nursing Care of the Mental Health Client and Advanced Gerontologic Care
36.00 hrs lecture, 162.00 hrs lab
Units: 5.00
Prerequisite: NUR-305 with grade of C or better
Accepted For Credit: CSU
NUR-306 is the sixth course in the nursing sequence. The course focus is on comprehensive nursing care to promote adaptive communication and responses in mental health and geriatric clients. 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. Nursing skills will focus on assessments, communication, and critical thinking through the use of actual clinical situations and/or simulations and role playing. The clinical setting provides a variety of interactive and practice situations with psychiatric and geriatric clients. Students will function in a leadership role during the geriatric clinical and will expand their knowledge of community-based nursing. This course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to verbal and nonverbal behaviors, the mentally ill, and sources of stress among diverse ethnic groups that may lead to violence, substance abuse, and mental illness. 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. (GR)

NUR-307 Nursing Leadership and Preceptorship
18.00 hrs lecture, 216.00 hrs lab
Units: 5.00
Prerequisite: NUR-306 with grade of C or better
Accepted For Credit: CSU
NUR-307 is the final course in the nursing sequence. The focus of this course is on nursing care and first level management skills in caring for groups of hospitalized patients. Emphasis is placed on team management skills in both acute care and gerontological settings. The registered nurse preceptor directly supervises the student under the guidance of the nursing faculty liaison. Professional development skills, as well as current issues in nursing, are discussed. This course focuses on managing groups of adults and geriatric patients with respect to the individual’s cultural beliefs related to health care practices. The definition of cultural diversity includes ethnic, cultural, and psychological effects in response to wellness, illness, health practices, and value systems among cultural groups. Clinical application of both theory and skills occurs in hospital and gerontological health care facilities. (GR)

NUR-315 Clinical Skills Review
27.00 hrs lab
Units: 0.50
This nursing course provides supplemental instruction and enhancement of clinical skills obtained in previous nursing courses. Repeatable = 2 times (CR)

NUR-316 Maternal-Newborn and Women’s Health Review
9.00 hrs lecture, 2700 hrs lab
Units: 1.00
Advisory: Eligible for ENGL-101A; NUR-107 and NUR-307 or in progress
Nursing 316 is an intensive, two weekend review of obstetrical and newborn care, with an additional focus on women’s health. It is meant as a content review for the new nursing graduate who is preparing for NCLEX examinations, or the registered nurse who desires to reenter the profession. Repeatable = 2 times (GC)

NUR-365 Supervised Tutoring
180.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology and skill enhancement in a subject. It may include consultation with skills lab coordinator and supervised tutoring and/or student tutors. Repeatable = 3 times (NG)

PERSONAL DEVELOPMENT
Division: Counseling

PD-100 Transition to College
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
This course is designed for new students as an orientation to Ohlone and to college life in general. Students will become familiar with various aspects of Ohlone such as facilities, programs, services, policies, technology, and campus-wide issues. Additional topics that will be covered are study skills, academic expectations, diversity, health/wellness, and relationships. (GC)

PD-101 College Survival Techniques
9.00 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 will be offered as a short-term course. Repeatable = 2 times (CR)

Photo courtesy of Julie Polk.
PD-105  **College Success**  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
The goal of this course is to assist students in developing personal and academic skills needed to be successful in college and life. This course integrates personal growth, learning techniques, academic and career success, problem solving, and critical and creative thinking. The course focus is on the following topics: self-evaluation and assessment, goal setting, career decision making, educational planning, time and financial management techniques, instructor-student relationships, effective writing and communication, cultural diversity, health maintenance, stress management, campus resources, learning styles and strategies including lecture note-taking, test-taking, memory, and concentration. (GC)

PD-111  **Strategies for College Success**  
18.00 hrs lecture  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course covers specific topics designed to help students succeed in college. Additionally, students are assisted in adjusting to college life and identifying learning strategies, problem solving, academic planning, critical thinking, and individual motivation. The theme and content of each class varies and is determined by the counseling faculty. Repeatable = 2 times (GC)

PD-113  **Strategies for Succeeding in College**  
36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU & UC  
This course helps students to adjust to college. The focus is on the following topics: college expectations and opportunities, campus resources, learning styles and strategies including lecture note-taking, test-taking, memory and concentration, life management, goal setting, educational planning, health maintenance, cultural diversity and relationships. This course integrates personal growth and academic success with problem solving, critical and creative thinking. The theme and content of each class varies and is determined by the counseling faculty. Repeatable = 2 times (GC)

PD-114  **Introduction to Paraprofessional Counseling**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Cross-referenced Course: PSY-114  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course is designed for students who are interested in learning basic counseling theories, skills, and ethics. Training will emphasize crisis intervention, active listening, and other skills which are necessary for effective interpersonal communication. Includes supervised experience on campus and in the community. (GC)

PD-120  **Student Government Workshop**  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course explores theories and practice of leadership (roles of leaders, group process, management by objectives, motivational psychology, administration of programs) through lecture, laboratory, student government meetings, and programs. It is recommended for student government officers, club officers, and individuals who want to participate in leadership roles. Repeatable = 3 times (GC)

PD-149  **Career Testing Workshop**  
9.00 hrs lecture  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This is a practical course that will allow students to focus on self-exploration through the use of career assessment inventories. The course will assist students in establishing career and educational goals. The course is intended as an introduction to the career planning process and is offered in short course format. Repeatable = 1 time (CR)

PD-150  **Career Planning**  
36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU  
This course will allow students to evaluate personal interests, skills, values, work styles, and experience and to relate them to the world of work. Students will also learn decision making, educational and career planning, locating career resources, job search strategies, and labor market awareness. Repeatable = 2 times (GC)

PD-160  **Student Leadership in Higher Education**  
27.00 hrs lecture, 36.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This class is designed to prepare students for leadership roles in campus and future organizations. It includes communication, leadership roles, proper administration of Robert’s Rules of Order, delegation, and program evaluation. It is open to student government members, general club members, and any student interested in gaining valuable leadership skills. (GC)

PD-170  **Welcome Day: The Freshman Connection**  
9.00 hrs lecture  
Units: 0.50  
Accepted For Credit: CSU  
Various workshops will be taught by counselors, faculty, and administrators to help students make the transition to college. They will learn how to be successful in college, what college services are available to them, and where things are located on campus. The course includes a guaranteed follow-up counseling appointment. (CR)

PD-180  **Peer Mentoring**  
36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU  
This course is an introduction to peer mentoring. Students learn about interpersonal communication, principles of counseling and advising, and theories of student development. Students have the opportunity to act as peer mentors for new Ohlone students. (GC)

PD-240  **College Success for Pre-Health Science Majors**  
36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU  
This course is an introduction to Ohlone College health science programs, academic policies and resources. This course also provides students with information on learning strategies and self-motivation/management. (GC)
## PHILOLOGY
Division: Humanities, Social Sciences, and Mathematics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Prerequisites</th>
<th>A dvisory</th>
<th>Accepted For Credit</th>
<th>Acceptance</th>
<th>GC</th>
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<tbody>
<tr>
<td>PD-241</td>
<td>College Success for Athletes</td>
<td>2.00</td>
<td>36.00</td>
<td>0.00</td>
<td>Instructor or counselor referral</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
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<td>PD-365</td>
<td>Supervised Tutoring</td>
<td>0.00</td>
<td>90.00</td>
<td>0.00</td>
<td>Instructor or counselor referral</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
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<tr>
<td>PHIL-100</td>
<td>Introduction to Philosophy</td>
<td>3.00</td>
<td>54.00</td>
<td>0.00</td>
<td>ENGL-101A</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
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<td>PHIL-101</td>
<td>Ancient Philosophy</td>
<td>3.00</td>
<td>54.00</td>
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<td>Eligible for ENGL-101A</td>
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<td>PHIL-102</td>
<td>Modern Philosophy</td>
<td>3.00</td>
<td>54.00</td>
<td>0.00</td>
<td>Eligible for ENGL-101A</td>
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<td>CSU &amp; UC</td>
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<tr>
<td>PHIL-104</td>
<td>Logic</td>
<td>3.00</td>
<td>54.00</td>
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<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
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<tr>
<td>PHIL-106</td>
<td>Ethics</td>
<td>3.00</td>
<td>54.00</td>
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<td>Eligible for ENGL-101A</td>
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<td>PHIL-107</td>
<td>Practical Reasoning</td>
<td>3.00</td>
<td>54.00</td>
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<td>Eligible for ENGL-101A</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>6.00</td>
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<td>PHIL-109A</td>
<td>Understanding the Old Testament</td>
<td>3.00</td>
<td>54.00</td>
<td>0.00</td>
<td>Eligible for ENGL-101A</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>6.00</td>
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<tr>
<td>PHIL-109B</td>
<td>Understanding the New Testament</td>
<td>3.00</td>
<td>54.00</td>
<td>0.00</td>
<td>Eligible for ENGL-101A</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
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<tr>
<td>PHIL-110</td>
<td>Introduction to Asian Religions</td>
<td>3.00</td>
<td>54.00</td>
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<td>Eligible for ENGL-101A</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
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<td>PHIL-112</td>
<td>Introduction to Western Religions</td>
<td>3.00</td>
<td>54.00</td>
<td>0.00</td>
<td>Eligible for ENGL-101A</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
<td>6.00</td>
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</tbody>
</table>
PHIL-114  Introduction to Islam
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course will offer a basic overview of the nature of Islam as a religion or system of life, its culture, and its impact on Muslim individuals and groups. The course will consider the basic sources of Islam and the history of the Islamic tradition. (GC)

PHYSICAL EDUCATION

Division: Athletics and Exercise Science

PE-195A1  PE Work Experience Education
75.00 hrs lab
Units: 1.00
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-195A2  PE Work Experience Education
150.00 hrs lab
Units: 2.00
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
225.00 hrs lab
Units: 3.00
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
300.00 hrs lab
Units: 4.00
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 16 units (GC)

PE-250  Fitness Camp
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This lifetime fitness and wellness course for men and women will emphasize total body fitness through aerobic activity, strength training, and stretching. Fitness and wellness-related lecture and lab activities will address cardiorespiratory endurance, muscular strength and endurance, safe and effective activity principles, basic nutrition principles, weight management strategies, and risk factors for disease. Repeatable = 3 times (GC)

PE-252  Personal Exercise Program
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course enables the student to continue to practice exercise programs developed in PE-250. The programs must include activities which develop cardiovascular fitness, strength, flexibility, and fitness maintenance. Repeatable = 3 times (GC)

PE-255  Water Safety Instruction
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; current Red Cross Lifesaving Certificate
Accepted For Credit: CSU & UC
This course allows students to refine swimming and life-saving skills and also develop the ability to analyze swimming skills. Students will learn basic techniques of teaching swimming, life saving, and water safety skills. Students will also learn the basis of management of pool and waterfront programs. The ANRC Water Safety Instructor Certificate is issued upon successful completion. Repeatable = 3 times (GC)

PE-268  Golf Instruction and Theory
18.00 hrs lecture, 36.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course provides the student with an understanding of the fundamentals, rules, strategies and skills of golf. Game situations will also be covered. (GC)

PE-300A2  Basketball
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course provides the student with an understanding of the fundamentals, rules, strategies and skills of basketball. Game situations will also be covered. (GC)
**PE-300C2 Advanced Basketball**

36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-300A2, PE-300A3, or equivalent  
Accepted For Credit: CSU & UC  
This course is designed to further develop the techniques of the basketball player who has been taught the fundamentals, rules, and strategies of basketball. This course is recommended for those who have played basketball competitively. (GC)

**PE-300C3 Advanced Basketball**

54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-300A2, PE-300A3, or equivalent  
Accepted For Credit: CSU & UC  
This course is designed to further develop the techniques of the basketball player who has been taught the fundamentals, rules, and strategies of basketball. This course is recommended for those who have played basketball competitively. (GC)

**PE-301A2 Volleyball**

36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This PE course is designed for students wishing to learn the fundamentals of volleyball. (GC)

**PE-301A3 Volleyball**

54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This PE course is designed for students wishing to learn the fundamentals of volleyball. (GC)

**PE-301B2 Intermediate Volleyball**

36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-301A2 or PE-301A3 or equivalent  
Accepted For Credit: CSU & UC  
This PE course is designed for students wishing to learn the intermediate strategies and skills of volleyball. (GC)

**PE-301B3 Intermediate Volleyball**

54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-301A2 or PE-301A3 or equivalent  
Accepted For Credit: CSU & UC  
This PE course is designed for students wishing to learn the intermediate strategies and skills of volleyball. (GC)

**PE-301C2 Advanced Volleyball**

36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-301B2, PE-301B3, or equivalent  
Accepted For Credit: CSU & UC  
This PE course is designed for students wishing to learn the advanced strategies and skills of volleyball. This course is recommended for the competitive volleyball player. (GC)

**PE-301C3 Advanced Volleyball**

54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-301B2, PE-301B3, or equivalent  
Accepted For Credit: CSU & UC  
This PE course is designed for students wishing to learn the advanced strategies and skills of volleyball. This course is recommended for the competitive volleyball player. (GC)

**PE-302A2 Flag Football**

36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This co-ed course is designed to assist the student in developing total fitness through flag football. The objective of this course is to provide the students with the general knowledge of flag football with emphasis on team play. (GC)

**PE-302A3 Flag Football**

54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This co-ed course is designed to assist the student in developing total fitness through flag football. The objective of this course is to provide the students with the general knowledge of flag football with emphasis on team play. (GC)

**PE-303A2 Soccer**

36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course will instruct the student in the basic techniques of soccer. Basic skills, rules, and basic strategies will be covered. (GC)

**PE-303A3 Soccer**

54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & 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 Indoor Soccer**

36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course will instruct the student in the basic fundamentals and strategies used in indoor soccer. (GC)

**PE-304A3 Indoor Soccer**

54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course will instruct the student in the basic fundamentals and strategies used in indoor soccer. (GC)

**PE-305C2 Advanced Softball**

36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & 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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours Lab</th>
<th>Units</th>
<th>Advisory and Acceptance Details</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-305C3</td>
<td>Advanced Softball</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC</td>
<td>For students with advanced level of softball skill. This is a course for fast pitch softball. (GC)</td>
</tr>
<tr>
<td>PE-306A2</td>
<td>Slow Pitch Softball</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC</td>
<td>This PE class is designed to provide softball skills and basic strategies at the beginning level. (GC)</td>
</tr>
<tr>
<td>PE-306A3</td>
<td>Slow Pitch Softball</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC</td>
<td>This PE class is designed to provide softball skills and basic strategies at the beginning level. (GC)</td>
</tr>
<tr>
<td>PE-306B2</td>
<td>Intermediate Slow-Pitch Softball</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC; PE-306A2 or PE-306A3 or equivalent</td>
<td>This PE course is designed to further the skills and understanding of softball for each participant at the intermediate level. (GC)</td>
</tr>
<tr>
<td>PE-306B3</td>
<td>Intermediate Slow-Pitch Softball</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC; PE-306A2, PE-306A3, or equivalent</td>
<td>This PE course is designed to further the skills and understanding of softball for each participant at the intermediate level. (GC)</td>
</tr>
<tr>
<td>PE-307C2</td>
<td>Advanced Baseball</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; Previous high school or college experience; Accepted For Credit: CSU &amp; UC</td>
<td>This course is designed to improve skills and understanding of baseball fundamentals enabling the student to compete at the college level. Strategy and technique will be taught in non-competitive and competitive situations. Situational hitting and defense practice in game settings will also be stressed. (GC)</td>
</tr>
<tr>
<td>PE-307C3</td>
<td>Advanced Baseball</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year; Previous high school or college experience; Accepted For Credit: CSU &amp; UC</td>
<td>This course is designed to improve skills and understanding of baseball fundamentals enabling the student to compete at the college level. Strategy and technique will be taught in non-competitive and competitive situations. Situational hitting and defense practice in game settings will also be stressed. (GC)</td>
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<tr>
<td>PE-315A2</td>
<td>Beginning Bowling</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; Accepted For Credit: CSU</td>
<td>This course provides the student an understanding of the fundamentals of beginning bowling. (GC)</td>
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<tr>
<td>PE-315B2</td>
<td>Intermediate Bowling</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; PE-315A2 or equivalent; Accepted For Credit: CSU</td>
<td>This course is designed for students who wish to learn advanced bowling techniques. (GC)</td>
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<tr>
<td>PE-320A2</td>
<td>Basic Golf Skills</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC; PE-320A2 or PE-320A3 or equivalent</td>
<td>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)</td>
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<tr>
<td>PE-320A3</td>
<td>Basic Golf Skills</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC; PE-320A2 or PE-320A3 or equivalent</td>
<td>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)</td>
</tr>
<tr>
<td>PE-320B2</td>
<td>Intermediate Golf Skills</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC; PE-320A2 or PE-320A3 or equivalent</td>
<td>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)</td>
</tr>
<tr>
<td>PE-320B3</td>
<td>Intermediate Golf Skills</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year; Accepted For Credit: CSU &amp; UC; PE-320A2 or PE-320A3 or equivalent</td>
<td>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)</td>
</tr>
<tr>
<td>PE-320C2</td>
<td>Advanced Golf Skills</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; PE-320B2 or PE-320B3 or equivalent; Accepted For Credit: CSU &amp; UC</td>
<td>This course is designed for the more advanced students of golf who would like to fine-tune their game and work on any problem areas of play. (GC)</td>
</tr>
</tbody>
</table>
Advanced Golf Skills
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-320B2 or PE-320B3 or equivalent
Accepted For Credit: CSU & UC
This course is designed for the more advanced students of golf who would like to fine-tune their game and work on any problem areas of play. (GC)

Small Group Golf Instruction
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
This course covers the fundamentals of golf technique including proper use of equipment, grip, stance, and swing. The class is broken into smaller groups for more effective learning and coaching. Repeatable = 2 times (GC)

Golf: Chipping, Pitching, and Putting
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-320A2, PE-320A3, or equivalent
Accepted For Credit: CSU & UC
This is an advanced golf class designed specifically to introduce the student to the skills required in the performance of chipping, pitching, and putting in order to lower their golf score. (GC)

Golf: Chipping, Pitching, and Putting
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-320A2, PE-320A3, or equivalent
Accepted For Credit: CSU & UC
This is an advanced golf class designed specifically to introduce the student to the skills required in the performance of chipping, pitching, and putting in order to lower their golf score. (GC)

Golf One on One
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Advisory: Some existing golf experience
Accepted For Credit: CSU
This course is designed to assist the golfer with swing improvement using the V1 PGA certified video system. The V1 system will allow the instructor to show the students various angles of their swing to identify their swing faults. Once faults are identified, the instructor will assign specific drills learned in the Small Group Instruction course to correct the faults. Repeatable = 2 times (GC)

On-Course Golf Management
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-320C2, PE-320C3, or equivalent
Accepted For Credit: CSU & UC
This course is designed to help the student develop the proper shotmaking skills, help reduce stress and use positive feedback techniques while playing Leisure or Tournament Golf. The student will also play various golf formats and establish a golf handicap. (GC)

On-Course Golf Management
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-320C2, PE-320C3, or equivalent
Accepted For Credit: CSU & UC
This course is designed to help the student develop the proper shotmaking skills, help reduce stress, and use positive feedback techniques while playing leisure or tournament golf. The student will also play various golf formats and establish a golf handicap. (GC)

Tournament Golf
36.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to prepare the individual mentally and physically for the rigors of tournament golf play. The student will play various tournament formats of scramble, best ball, and alternating shot. (GC)

Tournament Golf
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to prepare the individual mentally and physically for the rigors of tournament golf play. The student will play various tournament formats of scramble, best ball, and alternating shot. (GC)

Swing Analysis
36.00 hrs lab
Units: 0.50
Corequisite: PE-320 or PE-322
Accepted For Credit: CSU & UC
This course is designed to assist the golfer with swing improvement using video. Repeatable = 2 times (GC)

Swing Analysis
54.00 hrs lab
Units: 1.00
Corequisite: PE-320A2 or PE-322
Accepted For Credit: CSU & UC
This course is designed to assist the golfer with swing improvement using video. Repeatable = 2 times (GC)

Adult Golf: A Lifelong Experience
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course is focused for the older adult golf enthusiast. Content to include: fundamentals of the game of golf including: grip, stance, swing, rules, etiquette, and knowledge of equipment. Students will have the opportunity to travel and play at local golf courses. Repeatable = 3 times (CR)

Adult Golf: A Lifelong Experience
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
This course is focused for the older adult golf enthusiast. Content to include: fundamentals of the game of golf including: grip, stance, swing, rules, etiquette, and knowledge of equipment. Students will have the opportunity to travel and play at local golf courses. Repeatable = 3 times (CR)
PE-327B2  Travel Destinations  
36.00 hrs lab  
Units: 0.50  
Advisory: Prior golf experience recommended  
Accepted For Credit: CSU  
This course is focused on the individual golf enthusiast that wants to travel to a variety of destinations to play golf. Repeatable = 2 times (CR)

PE-327B3  Travel Destinations  
54.00 hrs lab  
Units: 1.00  
Advisory: Prior golf experience recommended  
Accepted For Credit: CSU  
This course is focused on the individual golf enthusiast that wants to travel to a variety of destinations to play golf. Repeatable = 2 times (CR)

PE-328  Golf Course Experience  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Advisory: Prior golf experience recommended  
Accepted For Credit: CSU  
This course is designed to help the student develop the proper shotmaking skills, help reduce stress and use positive feedback techniques while playing leisure and tournament golf. The student will also play various golf formats and establish a golf handicap. Repeatable = 2 times

PE-335A2  Express Workout  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
Move from one fitness station to the next with this 30-minute circuit training program targeting muscular strength and endurance, cardiorespiratory fitness and flexibility. This class is designed to tone the entire body in a minimum amount of time and is appropriate for all fitness levels. Repeatable = 3 times (GC)

PE-335A3  Express Workout  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
Move from one fitness station to the next with this 30-minute circuit training program targeting muscular strength and endurance, cardiorespiratory fitness and flexibility. This class is designed to tone the entire body in a minimum amount of time and is appropriate for all fitness levels. Repeatable = 3 times (GC)

PE-336A2  Express Cardio  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This class will use both circuit and group training formats in a 30-minute cardio blast. Designed for people with limited time, the course will require students to use a variety of cardio machines, jump ropes, BOSU, and calisthenics to elevate the heart rate and improve fitness. Repeatable = 3 times (GC)

PE-336A3  Express Cardio  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This class will use both circuit and group training formats in a 30-minute cardio blast. Designed for people with limited time, the course will require students to use a variety of cardio machines, jump ropes, BOSU, and calisthenics to elevate the heart rate and improve fitness. Repeatable = 3 times (GC)

PE-341A2  Strength Training  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to assist the student in developing a strength fitness program through demonstrations and practical applications of sound weight lifting techniques. (GC)

PE-341A3  Strength Training  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to assist the student in developing a strength fitness program through demonstrations and practical applications of sound weight lifting techniques. (GC)

PE-341B2  Intermediate Strength Training  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-341A2 or PE-341A3 or equivalent  
Accepted For Credit: CSU & UC  
This activity class is designed to assist the student with advanced strength training techniques for personal muscular development. (GC)

PE-341B3  Intermediate Strength Training  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-341A2 or PE-341A3 or equivalent  
Accepted For Credit: CSU & UC  
This activity class is designed to assist the student with advanced strength training techniques for personal muscular development. (GC)

PE-342A2  Circuit Training  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This activity course is designed to increase flexibility, strength, and cardiovascular endurance of the students through the practical application of circuit training. (GC)
PE-342A3  Circuit Training
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to increase flexibility, strength, and cardiovascular endurance of the students through the practical application of circuit training. (GC)

PE-343A2  Strength and Cardio Training
36.00 hrs lab
Units: 0.50
Accepted For Credit: CSU & UC
Set in the fitness lab, this course includes the use of free weights, machine weights, and cardiovascular equipment to improve and develop the muscular and cardiovascular systems of the body. (GC)

PE-343A3  Strength and Cardio Training
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
Set in the fitness lab, this course includes the use of free weights, machine weights, and cardiovascular equipment to improve and develop the muscular and cardiovascular systems of the body. (GC)

PE-344A2  Total Fitness
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to provide students, faculty, and staff with an individualized fitness and wellness program through the use of cardio-vascular equipment, circuit training, and machine and free weights. It allows for participation at the student, faculty, and staff convenience during the open lab hours. Repeatable = 3 times (GC)

PE-344A3  Total Fitness
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to provide students, faculty, and staff with an individualized fitness and wellness program through the use of cardio-vascular equipment, circuit training, and machine and free weights. It allows for participation at the student, faculty, and staff convenience during the open lab hours. Repeatable = 3 times (GC)

PE-346A2  Guts and Butts
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Guts and Butts is a conditioning program emphasizing muscular strength, toning, and endurance for the abdominal, glutes, and thigh muscle groups. Repeatable = 3 times (GC)

PE-346A3  Guts and Butts
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Guts and Butts is a conditioning program emphasizing muscular strength, toning, and endurance for the abdominal, glutes, and thigh muscle groups. Repeatable = 3 times (GC)

PE-350A2  Learning to Swim
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed for students who want to learn how to swim and become less fearful of the water. This course is also recommended for students wanting to become better swimmers. (GC)

PE-350A3  Learning to Swim
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed for students who want to learn how to swim and become less fearful of the water. This course is also recommended for students wanting to become better swimmers. (GC)

PE-350D2  Competitive Swimming
36.00 hrs lab
Units: 0.50
Advisory: Ability to swim 1200 yards in under 20 minutes; medical check within the last year
Accepted For Credit: CSU & UC
This course consists of a swimming workout consisting of progressively more difficult interval swimming. All four competitive strokes will be used throughout the semester. (GC)

PE-350D3  Competitive Swimming
54.00 hrs lab
Units: 1.00
Advisory: Ability to swim 1200 yards in under 20 minutes; medical check within the last year
Accepted For Credit: CSU & UC
This course consists of a swimming workout consisting of progressively more difficult interval swimming. All four competitive strokes will be used throughout the semester. (GC)

PE-351A2  Aquatic Conditioning
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed for students who want to improve their swimming and conditioning skills. This progressive program enables the students to become physically fit without injury to joints of the body. (GC)

PE-351A3  Aquatic Conditioning
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed for students who want to improve their swimming and conditioning skills. This progressive program enables the students to become physically fit without injury to joints of the body. (GC)

PE-353A2  Water Polo
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & 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-353A3  Water Polo  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & 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  Intermediate Water Polo  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-353A2 or PE-353A3 or equivalent  
Accepted For Credit: CSU & 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-353B3  Intermediate Water Polo  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-353A2 or PE-353A3 or equivalent  
Accepted For Credit: CSU & 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  Aquatic Stroke Techniques  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & 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-355A3  Aquatic Stroke Techniques  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & 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-355A4  Aquatic Stroke Techniques  
108.00 hrs lab  
Units: 2.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & 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  Water Exercise  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to provide students with a fitness program through various water exercise and swimming workouts. Repeatable = 3 times (GC)

PE-356A3  Water Exercise  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to provide students with a fitness program through various water exercises and swimming workouts. Repeatable = 3 times (GC)

PE-357A2  Aqua Aerobics  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course will introduce aerobic activities in the swimming pool. Activities to include rhythmic movements to music, major muscle group exercises, and fluid resistance training. Repeatable = 3 times (GC)

PE-357A3  Aqua Aerobics  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course will introduce aerobic activities in the swimming pool. Activities to include rhythmic movements to music, major muscle group exercises, and fluid resistance training. Repeatable = 3 times (GC)

PE-360A2  Badminton  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to give the student an understanding of the basic fundamentals of badminton. (GC)

PE-360A3  Badminton  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to give the student an understanding of the basic fundamentals of badminton. (GC)

PE-360B2  Intermediate Badminton  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-360A2, PE-360A3, or equivalent  
Accepted For Credit: CSU & UC  
This course is designed to further develop the techniques and skill level of the badminton player. (GC)

PE-360B3  Intermediate Badminton  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-360A2, PE-360A3, or equivalent  
Accepted For Credit: CSU & UC  
This course is designed to further develop the techniques and skill level of the badminton player. (GC)

PE-362A2  Beginning Tennis  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This PE course is designed to teach the basic fundamentals, rules, and strategies pertaining to the game of tennis. (GC)
**PE-362A** Beginning Tennis
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This PE course is designed to teach the basic fundamentals, rules, and strategies pertaining to the game of tennis. (GC)

**PE-362B** Intermediate Tennis
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-362A2, PE-362A3, or equivalent
Accepted For Credit: CSU & UC
This PE course is designed for students to learn the fundamental and intermediate skills of tennis. Strategy sessions in singles as well as doubles play will also be covered. (GC)

**PE-362C** Advanced Tennis
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-362A2, PE-362A3, or equivalent
Accepted For Credit: CSU & UC
This PE course is designed for students to learn the advanced skills of tennis including strategies, rules, and tournament play. (GC)

**PE-366A** Dance Aerobics
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This PE course is designed for students 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-366B** Dance Aerobics
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This PE course is designed for students 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-367A** Step Aerobics
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Step Aerobics is an introduction to choreography utilizing the step as a means for improving cardiopulmonary 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-368A** Hi-Low Aerobics
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course utilizes aerobic exercise done to music to stimulate cardiorespiratory fitness. A thorough warm-up and cool down, as well as abdominal strengthening will be included. A final stretching routine will focus on increasing flexibility, primarily in the low back and hamstrings. (GC)
Total Body Conditioning

PE-371A2
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Total body conditioning program emphasizing muscular strength and endurance, cardiorespiratory endurance, and flexibility. Aerobic activities are combined with resistance training exercises and are designed to work the total body. Step aerobics, aerobic dance, power walking, circuit training, and interval training will be introduced. (GC)

PE-371A3
Total Body Conditioning
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Total body conditioning is a complete conditioning program emphasizing muscular strength and endurance, cardiorespiratory endurance, and flexibility. Aerobic activities are combined with resistance training exercises and are designed to work the total body. Step aerobics, aerobic dance, power walking, circuit training, and interval training will be introduced. (GC)

Boot Camp

PE-372B2
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course combines cardiorespiratory, strength, flexibility and core training into a back-to-basics approach to fitness. Body weight exercises, like sit-ups, push-ups, leg and abdominal strengthening, will be combined with cardiorespiratory exercises, like running and jumping rope, in intervals that will challenge you to your max. This is a no-nonsense approach to total body training that helps you reach your potential. Repeatable = 3 times (GC)

PE-372B3
Boot Camp
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course combines cardiorespiratory, strength, flexibility and core training into a back-to-basics approach to fitness. Body weight exercises, like sit-ups, push-ups, leg and abdominal strengthening, will be combined with cardiorespiratory exercises, like running and jumping rope, in intervals that will challenge you to your max. This is a no-nonsense approach to total body training that helps you reach your potential. Repeatable = 3 times (GC)

Kickboxing

PE-374A2
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course utilizes martial arts techniques including kicks, punches, blocks, and defenses in a cardio exercise program designed to aid in the prevention of verbal and physical attacks. (GC)

PE-374A3
Kickboxing
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course utilizes martial arts techniques including kicks, punches, blocks, and defenses in a cardio exercise program designed to aid in the prevention of verbal and physical attacks. (GC)

Tai Chi

PE-375A2
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This physical activity course is designed to focus on Tai Chi as a lifetime leisure activity. Tai Chi practice is suitable for all ages and levels of fitness. Benefits include stress reduction, improved balance and injury prevention through improvement in joint stability and increased range of motion. Repeatable = 3 times (GC)

PE-375A3
Tai Chi
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This physical activity course is designed to focus on Tai Chi as a lifetime leisure activity. Tai Chi practice is suitable for all ages and levels of fitness. Benefits include stress reduction, improved balance and injury prevention through improvement in joint stability and increased range of motion. Repeatable = 3 times (GC)

Yoga

PE-376A2
Yoga
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course will explore the philosophies and positions related to yoga fundamentals. In addition, concepts of meditation will be introduced. Repeatable = 3 times (GC)

PE-376A3
Yoga
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course will explore the philosophies and positions related to yoga fundamentals. In addition, concepts of meditation will be introduced. Repeatable = 3 times (GC)

Fitness Yoga

PE-376B2
Fitness Yoga
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course combines yoga and fitness principles in a unique blend that develops muscle endurance, strength, balance, flexibility and core stability through a series of exercises and traditional yoga poses. Repeatable = 3 times (GC)

PE-376B3
Fitness Yoga
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course combines yoga and fitness principles in a unique blend that develops muscle endurance, strength, balance, flexibility and core stability through a series of exercises and traditional yoga poses. Repeatable = 3 times (GC)

Yoga and Meditation

PE-376C2
Yoga and Meditation
36.00 hrs lab
Units: 0.50
Accepted For Credit: CSU & UC
This class introduces the student to the basic principles and practices of yoga, including yogic breathing, positioning, and a holistic approach to a healthy mind and body. Various meditation techniques will be introduced and practiced with a focus on relaxation and stress reduction. Repeatable = 3 times (GC)
PE-376C3 Yoga and Meditation
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This class introduces the student to the basic principles and
practices of yoga, including yogic breathing, positioning, and a
holistic approach to a healthy mind and body. Various
meditation techniques will be introduced and practiced with a
focus on relaxation and stress reduction. Repeatable = 3 times
(GC)

PE-377A2 Pilates
36.00 hrs lab
Units: 0.50
Accepted For Credit: CSU & UC
This class will allow the student to increase their strength,
flexibility, stamina, and concentration through the use of floor
exercise. This technique driven class will introduce positions
such as the 100’s, roll downs, table tops, and rockers. Repeatable
= 3 times (GC)

PE-377A3 Pilates
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course will allow the student to increase their strength,
flexibility, stamina, and concentration through the use of floor
exercise. This technique driven class will introduce positions
such as the 100’s, roll downs, table tops, and rockers. Repeatable
= 3 times (GC)

PE-378A2 Indoor Cycling
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Indoor Cycling is a group exercise class done on stationary bikes
to music. During the class the instructor simulates an outdoor
ride. Together, you travel on flat roads, climb hills, sprint and
race. The workout is non-impact and you control the resistance
and intensity making it the perfect cardiovascular workout for
every fitness level. Burn calories, improve endurance, strengthen your lower body, and relax the mind without the need for special skills. Repeatable = 3 times (GC)

PE-378A3 Indoor Cycling
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Indoor Cycling is a group exercise class done on stationary bikes
to music. During the class the instructor simulates an outdoor
ride. Together, you travel on flat roads, climb hills, sprint and
race. The workout is non-impact and you control the resistance
and intensity making it the perfect cardiovascular workout for
every fitness level. Burn calories, improve endurance, strengthen your lower body, and relax the mind without the need for special skills. Repeatable = 3 times (GC)

PE-378B2 Term and Burn
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Combine an active workout on a stationary cycle with a review
of medical terminology and you have Term and Burn. Each class
will review anatomical, physiological, and scientific vocabulary
combined with a heart-thumping cardiovascular workout. This
class is appropriate for students in the PTA, RT, and Nursing
programs, as well as those with an interest in Physical Education,
Personal Training or a career in the fitness industry. Repeatable
= 3 times (GC)

PE-378B3 Term and Burn
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Combine an active workout on a stationary cycle with a review
of medical terminology and you have Term and Burn. Each class
will review anatomical, physiological, and scientific vocabulary
combined with a heart-thumping, cardiovascular workout. This
class is appropriate for students in the PTA, RT, and Nursing
programs, as well as those with an interest in Physical Education,
Personal Training or a career in the fitness industry. Repeatable
= 3 times (GC)

PE-379A2 Body Sculpting
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This physical activity course is designed to focus on total body
conditioning to help you reach your body’s desired potential.
Improve muscle strength and endurance, flexibility, core stability
and balance through the correct application of sound training
principles. Instruction on components of fitness and wellness
including nutrition, weight management, stress management,
healthy lifestyles, body composition, and rest will be presented. Repeatable = 3 times (GC)

PE-379A3 Body Sculpting
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This physical activity course is designed to focus on total body
conditioning to help you reach your body’s desired potential.
Improve muscle strength and endurance, flexibility, core stability
and balance through the correct application of sound training
principles. Instruction on components of fitness and wellness
including nutrition, weight management, stress management,
healthy lifestyles, body composition, and rest will be presented. Repeatable = 3 times (GC)

PE-393A2 Adaptive Physical Education – Strength Training
36.00 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating
medical limitations
Accepted For Credit: CSU & UC
Individualized course designed to meet physical needs of
physically limited students. Recommended for disabled
students. (GC)

PE-393A3 Adaptive Physical Education – Strength Training
54.00 hrs lab
Units: 1.00
Prerequisite: Statement from student’s physician stating
medical limitations
Accepted For Credit: CSU & UC
Individualized course designed to meet physical needs of
physically limited student. Recommended for disabled students. (GC)

PE-394A2 Adaptive Physical Education – Aquatics
36.00 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating
medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically
limited student in a physical education program. Individualized
aquatic programs allow participation for recreation value. (GC)
PE-394A3  Adaptive Physical Education – Aquatics
54.00 hrs lab
Units: 1.00
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized aquatic programs allow participation for recreational value. (GC)

PE-396A2  Adaptive Physical Education – Striding
36.00 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized cardiovascular conditioning and gradual endurance exercises allow participation for recreational value. (GC)

PE-396A3  Adaptive Physical Education – Striding
54.00 hrs lab
Units: 1.00
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized cardiovascular conditioning and gradual endurance exercises allow participation for recreational value. (GC)

PE-397A2  Adaptive Physical Education – Exercise
36.00 hrs lab
Units: 0.50
Prerequisite: Statement from student’s physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education program. Individualized fitness and general exercising allows participation for recreational value. (GC)

PHYSICAL SCIENCE
Division: Science, Technology, and Engineering

PHS-135  Physical Science
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course explores a variety of physical science topics (focus on solid matter) through laboratory investigation. (GR)

PHYSICAL THERAPIST ASSISTANT
Division: Health Sciences and Environmental Studies

PTA-101  Introduction to Physical Therapy
36.00 hrs lecture, 54.00 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. (GR)

PTA-102  Pathology
54.00 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
36.00 hrs lecture, 54.00 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 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
36.00 hrs lecture, 54.00 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 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 testing and activities of daily living are presented. (GR)
PTA-105A Therapeutic Exercise I
36.00 hrs lecture, 54.00 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
36.00 hrs lecture, 54.00 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
36.00 hrs lecture
Units: 2.00
Prerequisite: Admission into the PTA program; PTA-102, PTA-105; 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-107C Clinical Practicum III
162.00 hrs lab
Units: 3.00
Prerequisite: PTA-107B
Corequisite: PTA-109, PTA-110, PTA-111
Accepted For Credit: CSU
This course is a continuation of the clinical education of the physical therapist assistant. It builds on the skills learned in PTA-107B. This course focuses on the collection and interpretation of clinical data and includes exposure to various testing devices for strength, balance, and coordination. Students are expected to adjust patient treatment plans based on the test results and to communicate these to the clinical instructor for the purpose of modifying treatment plans. Students will conduct a workplace or practice analysis to consider the structure and function of the clinical setting. This evaluation will include such factors as patient referral patterns, time management, staff utilization, and marketing plans. The purpose of the exercise is to acquaint students with fiscal and management considerations in the health care delivery system. Laboratory experiences may include opportunities in more than one setting, as designated by the instructor. Repeatable = 1 time (CR)

PTA-108 Advanced Modalities
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: Admission to PTA/Program PTA-101
Accepted For Credit: CSU
This course deals with specific advanced physical therapy procedures which are employed in the physical therapy clinic, including paraffin bath, various types of electrical stimulation (TNS, Micro Current, Interferential, Premodulated, Russian, Galvanic, Iontophoresis, and HFS), various light spectrum modalities (Ultra-violet and Infrared), and electromyography for biofeedback. (GR)

PTA-109 Physical Therapy Through the Life Span
27.00 hrs lecture, 27.00 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
27.00 hrs lecture, 27.00 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
27.00 hrs lecture, 27.00 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-119 Sports Performance Testing
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: KIN-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-140  PTA Licensure Preparation
54.00 hrs lab
Units: 1.00
This course is designed to assist students in preparation to sit for licensure as a physical therapist assistant. Content, scope, and format of both the National PTA Licensure Exam and the California PT Laws and Regulations Exam will be addressed. Additionally, test-taking skills, study skills, content review, and self-assessment exercises will be used to facilitate preparation for these examinations. Repeatable = 1 time (CR)

PTA-150  Medical Ethics and Healthcare in the United States
54.00 hrs lecture
Units: 3.00
Investigation of current medical ethics and bioethics topics relevant to the allied health fields, as well as analysis of health care delivery systems, reimbursement models, and funding issues seen in health care in the United States. Repeatable = 2 times (GC)

PTA-301  Clinical Practicum I
216.00 hrs lab
Units: 4.00
Prerequisite: Admission to the PTA Program; PTA-104, PTA-105A, PTA-106, PTA-108
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-302  Clinical Practicum II
216.00 hrs lab
Units: 4.00
Prerequisite: PTA-105B, PTA-109, PTA-110, PTA-301
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-301. These skills include active, passive and resistive exercise programs, continued practice in application of thermal-based modalities, gait and transfer training. Students will collect and interpret clinical data and practice testing 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 are required to complete a clinical in-service. Students will also learn about the clinical environment as it relates to patient referral patterns, time management, staff utilization, and clinical marketing. Laboratory experiences may include opportunities to practice in more than one setting as designed by the instructor. Repeatable = 1 time (CR)

PTA-303  Clinical Internship
243.00 hrs lab
Units: 4.50
Prerequisite: PTA-111, PTA-302
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. (CR)

PTA-365  Supervised Tutoring
180.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology and skill enhancement in a subject. It may include consultation with skills lab coordinator and supervised tutoring and/or student tutors. Repeatable = 3 times (NG)

PHYS-108  Survey of Physics
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163, MATH-151
Accepted For Credit: CSU & UC
This is a general education course for non-science majors that gives a non-mathematical survey of physics, exploring the basic principles of mechanics, electromagnetism, quantum mechanics, relativity, and recent developments. Demonstrations are used extensively. (GC)

PHYS-120  Introduction to Physics I
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-181
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is a study of Newtonian mechanics, energy and transformations, gases, liquids, and solids. Periodic motion and waves will also be studied. (GR)

PHYS-120A  Introduction to Physics – Calculus Supplement
18.00 hrs lecture
Units: 1.00
Prerequisite: MATH-101A or equivalent
Corequisite: PHYS-120
Accepted For Credit: CSU & UC
This is an introduction to basic concepts of Calculus with applications to Physics Mechanics. (GR)
**PHYS-121 Introduction to Physics II**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: PHYS-120  
Accepted For Credit: CSU & UC  
This course is a continuation of PHYS-120 and covers light and optics, electricity, magnetism, and modern physics. (GR)

**PHYS-121A Introduction to Physics II – Calculus Supplement**  
18.00 hrs lecture  
Units: 1.00  
Prerequisite: MATH-101A and PHYS-120 or equivalent  
Accepted For Credit: CSU & UC  
This is an introduction to Calculus as applied to problems of electromagnetism. (GR)

**PHYS-131D Review of Physics Concepts**  
18.00 hrs lecture  
Units: 1.00  
Corequisite: Concurrent enrollment in PHYS-103 or PHYS-120 or PHYS-140 or PHYS-141 or PHYS-142  
This is an introduction to study techniques and more in-depth discussions of physics principles and problem-solving. This course is designed to review the material covered in selected Physics course(s) taken concurrently. Repeatable = 3 times (CR)

**PHYS-140 Mechanics**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-101A with grade of C or better  
Corequisite: MATH-101B  
Accepted For Credit: CSU & UC  
A mathematical introduction to vectors (projections, addition/subtraction, scalar and vector product) is offered as the necessary framework for calculations in Newtonian mechanics. The basic vector and scalar quantities used in the description of motion (position, displacement, velocity, and acceleration) are introduced first, allowing for a kinematical description of motion. Formulas are derived, involving the aforementioned quantities for one-dimensional motion as well as two-dimensional projectile and circular motion. Force and mass, momentum, work and impulse, kinetic and potential energy and momentum, (torque and moment of inertia) are analyzed conceptually and are used to build up the basic formulas from point-mass or extended rigid object dynamics (Newton’s laws of motion, work-energy and impulse-momentum theorem). Different types of motion and new types of forces are analyzed throughout the course using the new concepts (projectile motion due to gravitational force; circular motion due to tension, friction or normal forces; mass-pulley coupled motion problems; collisions due to contact forces; harmonic motion due to spring force; rigid object rotational motion and internal forces; general law of gravity and satellite motion; fluid statics and buoyant force; fluid motion due to pressure difference; and wave motion and superposition and interference of waves if time permits). (GR)

**PHYS-141 Electricity and Magnetism**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: PHYS-140  
Corequisite: MATH-101C  
Accepted For Credit: CSU & UC  
This course is a study of electric and magnetic fields, simple DC and AC circuits, and electromagnetic waves. (GR)

**PHYS-142 Optics, Heat, and Modern Physics**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: PHYS-140  
Corequisite: MATH-101C  
Advisory: PHYS-141  
Accepted For Credit: CSU & UC  
A review of wave physics is offered to introduce physical optics (interference, diffraction, polarization) and to prepare for quantum physics. The basic principles of quantum physics (wave-particle duality, uncertainty principle, wave functions and probability interpretation, Schrodinger’s wave equation and quantification) are covered. Wave mechanical calculations are performed on a few simple systems (free and trapped electron, harmonic oscillator) in order to illustrate energy quantification and tunneling. In special relativity, the historical significance of speed of light measurements is discussed in order to understand Einstein’s 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)

**PHYS-365 Supervised Tutoring**  
90.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with a student tutor and supervised tutoring by part-time instructional aides and/or student tutors. (NG)

**POLITICAL SCIENCE**

**PS-102 American Government**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course presents the nature of the constitutional government in America and the theory and practices of democracy. It emphasizes problems of individual rights, popular representation, and responsible leadership at the federal, state, and local levels. (GC)
PSY -101 General Psychology  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to the study of behavior and mental processes, including psychology as a science, perception, motivation, intelligence, learning, memory, development, personality, mental health, and the biological and social bases of behavior. (GR)  

PSY -102 Introduction to Experimental Psychology  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to the theory and application of the scientific method in the study of animal and human behavior. The emphasis is on experimental procedures and data collection, research design, data analysis, presentation, and research report writing. (GC)  

PSY -103 International Relations  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an analytical study of the relations between nations. The nation-state system, international ethics, national capability components, the international struggle for power, the international struggle for order, and the future world order will be discussed. (GC)  

PSY -104 Child Development  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines the development of children from conception until just prior to adolescence. Course includes the study of prenatal, physical, cognitive, linguistic, social, and emotional development. Course examines many of the concerns and complex issues involved in this developmental period and considers the contexts in which they occur. (GC)  

PSY -105 Comparative Government  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course offers a comparative study of contemporary forms of governments, institutions, and political problems of selected national governments. (GC)  

PSY -106 Constitutional Law and the United States  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: AJ-119  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course examines the development of judicial review and the evolving role of the U.S. Supreme Court through analysis of landmark decisions of the Court. In particular, this course will focus on a theoretical discussion exploring the plurality of methods of constitutional interpretation used by justices in the past and present. (GC)  

PSY -107 Adverse Childhood Experiences  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines the adverse childhood experiences (ACEs) and their impact on the development of children from conception until just prior to adolescence. Course includes the study of prenatal, physical, cognitive, linguistic, social, and emotional development. Course examines many of the concerns and complex issues involved in this developmental period and considers the contexts in which they occur. (GC)  

PSY -108 Adolescent Development  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a study of human development during adolescence with an emphasis on social, emotional, biological, intellectual, and personality development. This course includes a study of the many issues involved in this developmental period with special emphasis on the context in which they occur: family, peers, school, and culture. (GC)  

PSY -111 Social Psychology  
54.00 hrs lecture  
Units: 3.00  
Advisory: PSY-101 and ENGL-101A  
Accepted For Credit: CSU & UC  
A scientific study of the ways in which individuals are affected by social situations. Current theory and research on interpersonal attraction, prejudice and discrimination, attitude change, power, leadership, and control will be examined. (GC)
PSY-114  Introduction to Paraprofessional Counseling  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Cross-referenced Course: PD-114  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
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  
54.00 hrs lecture  
Units: 3.00  
Advisory: PSY-101; eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course introduces students to the major theoretical perspectives of psychopathology. It examines the categories of psychological disorders, their etiology, assessment of the disorders, current treatment methods, and possible causes of abnormal behavior. (GR)

PSY-120  Biological Psychology  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course focuses on the nervous system and how it affects human behavior and mental processes. Topics include the anatomy of the nervous system, neural communication, development, plasticity, psychoactive drugs, the senses, sleep-wake cycles, and sexual behavior. (GC)

PSY-139  Psychology in the Workplace  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: BA-139  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course applies principles of psychology to the workplace. Topics include combination skills, stress, cultural diversity, teamwork, understanding self and others, motivation, leadership, and other factors crucial to functioning effectively in the workplace. (GC)

REAL ESTATE

Division: Fine Arts, Business, and Communication Studies

RE-117  Computer Applications in Real Estate  
45.00 hrs lecture, 27.00 hrs lab  
Units: 3.00  
This course provides students with classroom and laboratory experience in computer applications and their use in the real estate industry. Students learn how computer applications and technology enhance one’s ability to engage in real estate practices. Students use software programs to perform tasks in word processing, spreadsheet, presentation, database, project/time management, and Web page creation. Software in the areas of real estate finance, real estate appraisal, property management, and residential sales are demonstrated. Students learn about the different types of computer and hardware devices. Students will utilize the Internet as a research and marketing tool. Repeatable = 1 time (GR)

RE-121  Real Estate Principles  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This is a fundamental real estate course covering basic laws and principles of California real estate. It provides background and terminology necessary for advanced study in specialized courses and is required in order to qualify for the real estate sales license examination. (GC)

RE-122  Real Estate Practice  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121 or a valid real estate license  
Accepted For Credit: CSU  
The day-to-day business of real estate including how to do listings, deposit receipts, open escrows, and obtain financing will be covered. This course is one of the required courses for the real estate salesperson license. (GC)

RE-124  Legal Aspects of Real Estate  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121 or valid real estate license or instructor’s approval  
Accepted For Credit: CSU  
This course is a study of California real estate law including rights incident to property ownerships and management, agency, contracts, and application of real estate transfer. Specific topics include conveyance, probate proceedings, trust deeds, foreclosure, and recent legislation governing real estate transactions. This course is one of the required courses for the broker’s license examination. (GC)

RE-126  Real Estate Finance  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121 or valid real estate license or instructor’s approval  
Accepted For Credit: CSU  
This real estate course covers the various types of lenders, their policies, and the market they serve. An in-depth analysis of the secondary market will be covered. This is one of the required courses for the broker’s examination. (GC)

RE-128  Real Estate Appraisal  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121 or valid real estate license  
Accepted For Credit: CSU  
An introductory course covering the purposes of appraisals, the appraisal process; and the different approaches, methods, and techniques used to determine the value of various types of property. This is one of the required courses for the broker’s license examination. (GC)

RE-131  Mortgage Loan Brokering and Lending  
54.00 hrs lecture  
Units: 3.00  
This course introduces students to the aspects of mortgage brokering operations including office setup, loan processing, lending regulations, types of loans, loan submission, quality control, FICO credit scoring, loan packaging, shipping, and mortgage math. (GC)
Real Estate Economics
54.00 hrs lecture
Units: 3.00
Prerequisite: RE-121
Accepted For Credit: CSU
This is an introductory course in real estate economics covering principles from both general economics and real estate practice. It discusses basic economic background for real estate analysis, how real estate markets function, major influences on real estate development, and real estate investment activities. Important economic concepts such as the monetary policy and the fiscal policy are included. (GC)

Real Estate Office Administration
54.00 hrs lecture
Units: 3.00
An overview of general real estate brokerage. This course covers the broker and license law, the real estate commission, the specialist and the generalist in brokerage, when and how to expand, sales personnel, recruiting, training and supervision, administration of the brokerage operation, and other topics pertaining to the day-to-day brokerage business. This is one of the elective courses for the broker’s license examination. (GC)

Common Interest Developments
54.00 hrs lecture
Units: 3.00
This class covers the basics of managing, purchasing, and selling of common interest developments (CIDs). This is one of the required courses for the sales person and broker’s licenses. (GC)

Escrow Procedures
54.00 hrs lecture
Units: 3.00
Advisory: RE-121, valid real estate license, or escrow employment
This course is a study of the escrow company and its role in the transfer of real property with emphasis on the legal aspects, the requirements of a valid escrow, and the practical use of such companies in the real estate industry. (GC)

Real Estate Property Management
54.00 hrs lecture
Units: 3.00
Advisory: RE-121 or valid real estate license
Accepted For Credit: CSU
This course studies the day-to-day problems encountered by owners and managers of residential income properties. The application of sound business principles in the pursuit of operational effectiveness is emphasized. (GC)

Work Experience Education – Vocational
75.00 hrs lab
Units: 1.00
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)

Work Experience Education – Vocational
150.00 hrs lab
Units: 2.00
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)

Work Experience Education – Vocational
225.00 hrs lab
Units: 3.00
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)

Work Experience Education – Vocational
300.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

Respiratory Therapist
Division: Health Sciences and Environmental Studies

Principles of Respiratory Therapy I
54.00 hrs lecture
Units: 3.00
Prerequisite: Admission to the RT program; MATH-151; CHEM-106A or equivalent
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This course presents basic theory and rationale for respiratory care. It includes history and organization of respiratory therapy services, basic cardiopulmonary anatomy and physiology, medical gas therapy, and introduction to respiratory pathophysiology. (GR)

Beginning Clinical Practice
54.00 hrs lab
Units: 1.00
Prerequisite: Admission to the RT program
Accepted For Credit: CSU
This course introduces students to the care of patients requiring respiratory therapy modalities. It also covers beginning level assessment skills, patient interviewing techniques, and the establishment and monitoring of therapeutic equipment systems. Repeatable = 1 time (CR)

Beginning Laboratory
108.00 hrs lab
Units: 2.00
Prerequisite: Admission to the RT program
Accepted For Credit: CSU
This course provides laboratory practice of beginning-level therapist skills including administration of medical gases, medicated aerosols, and incentive spirometry techniques. Repeatable = 1 time (CR)

Basic Patient Care
27.00 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
54.00 hrs lecture
Units: 3.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course is designed to study hyperinflation therapy, principles of humidification and aerosol therapy, chest assessment, cardiac anatomy and physiology, and acid base balance. Repeatable = 1 time (CR)

RT-104B Principles of Respiratory Therapy III
54.00 hrs lecture
Units: 3.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course includes study of advanced respiratory physiology including oxygenation and hypoxia and interpretation of arterial blood gas analysis. It includes respiratory care modalities of lung expansion therapy, interpretation of cardiopulmonary patient assessments and documentation of therapy delivered, and methods of equipment cleaning and sterilization. (GR)

RT-105A Intermediate Laboratory I
54.00 hrs lab
Units: 1.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course provides laboratory practice of intermediate-level therapist skills including chest assessment, hyperinflation therapy, chest physical therapy, and airway management. Repeatable = 1 time (CR)

RT-105B Intermediate Laboratory II
27.00 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
108.00 hrs lab
Units: 2.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. It emphasizes the practice of beginning and intermediate-level problem-solving and technical skills including assessment, oxygen therapy, humidity and aerosol administration, and chest physical therapy; or hyperinflation therapy, airway management, and beginning artificial ventilation. Repeatable = 1 time (CR)

RT-107 Intermediate Clinical Practice
216.00 hrs lab
Units: 4.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. It emphasizes the practice of beginning and intermediate-level problem-solving and technical skills including assessment, oxygen therapy, humidity and aerosol administration, chest physical therapy, hyperinflation therapy, airway management and beginning artificial ventilation. Repeatable = 1 time (CR)

RT-108 Basic Principles of Respiratory Pathophysiology
18.00 hrs lecture
Units: 1.00
Prerequisite: Admission to the RT program; completion of semester 1 of RT program
Accepted For Credit: CSU
This course emphasizes the principles of common pathophysiologic conditions encountered by respiratory therapy practitioners. Repeatable = 1 time (GR)

RT-130A Advanced Respiratory Therapy I
45.00 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
27.00 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
108.00 hrs lab
Units: 2.00
Prerequisite: Admission to RT program; completion of first year of RT program
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. It emphasizes the practice of advanced-level technical skills including procedures employed in emergency care situations, artificial airway maintenance and discontinuance, arterial blood sampling measurements, and initiation and termination of mechanical ventilatory life support. Repeatable = 1 time (CR)

RT-131A Principles of Mechanical Ventilation I
45.00 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 (GR)

RT-131B Principles of Mechanical Ventilation II
45.00 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 (GR)
RT-132 Advanced Laboratory
54.00 hrs lab
Units: 1.00
Prerequisite: Admission to the RT program; completion of first year of RT program
Accepted For Credit: CSU
This course provides laboratory practice of advanced respiratory therapy skills including establishment, stabilization, maintenance, and discontinuance of endotracheal and tracheotomy tubes; arterial blood sampling techniques; radiographic and electrocardiogram interpretation; and invasive and non-invasive monitoring. Repeatable = 1 time (CR)

RT-133 Mechanical Ventilation Laboratory
108.00 hrs lab
Units: 2.00
Prerequisite: Students must successfully complete RT-105B and RT-131A
Accepted For Credit: CSU
This course provides laboratory practice of advanced level therapist skills related to the application of mechanical ventilation including ventilator readiness, circuit changes, maintenance, and adjunctive procedures. Repeatable = 1 time (CR)

RT-134 Neonatal and Pediatric Respiratory Care
18.00 hrs lecture
Units: 1.00
Prerequisite: Admission to the RT program; completion of first two semesters of RT program; BIOL-104, BIOL-106, or BIOL-107 with grade of C or better; PHYS-108 with grade of C or better
Accepted For Credit: CSU
This course addresses fetal development and special problems in the adaptation of respiratory care procedures and techniques to the needs of the neonatal and developing child. Repeatable = 1 time (CR)

RT-134L Clinical Practicum in Neonatal and Pediatric Respiratory Care
81.00 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 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
27.00 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
189.00 hrs lab
Units: 3.50
Prerequisite: Admission to the RT program; completion of semesters 1, 2, and 3 of RT program
Corequisite: RT-130B and RT-131B, unless already completed
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. Advanced level respiratory care skills including cardiopulmonary assessment, management, evaluation, and decision-making processes involved in the care of the ICU patient are emphasized. Students in this course practice as a member of the hospital health care team. Repeatable = 1 time (CR)

RT-137 Home Respiratory Care and Pulmonary Rehabilitation
9.00 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 (GR)

RT-138 Specialty Rotations in Respiratory Care
27.00 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
18.00 hrs lecture
Units: 1.00
Prerequisite: Admission to the RT program
Accepted For Credit: CSU
This course provides an in-depth survey of various pulmonary laboratory methods to detect the presence and degree of respiratory impairment/disease. Repeatable = 1 time (GR)
RT-139L  Clinical Practice in Pulmonary Function Testing
27.00 hrs lab
Units: 0.50
Prerequisite: Admission to the RT program
Accepted For Credit: CSU
This course provides supervised clinical experience at area hospitals. Various pulmonary laboratory methods for detecting the presence of respiratory impairment/disease are emphasized. Repeatable = 1 time (CR)

RT-140  Basic Introduction to Polysomnography
9.00 hrs lecture
Units: 0.50
The study and assessment of sleep is a very contemporary concern in the field of respiratory care. This course will provide an overview of sleep adequacy analysis, sleep disorders, and activities of practitioners who assess and treat individuals with sleep problems. (GR)

RT-145  Cardio-Pulmonary Resuscitation (CPR)
Basic Life Support (BLS)
9.00 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
180.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
Individualized tutoring to assist students to develop a learning methodology and skills enhancement in a subject. Not applicable to associates degree. Repeatable = 3 times (NG)

SOCIOLOGY
Division: Humanities, Social Sciences, and Mathematics

SOC-101  Introduction to Sociology
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course is an exploration of our culturally diverse society from a multi-perspective approach. Systematic study of social human behavior and human groups with an emphasis on the influence of social relationships on people's attitudes, behaviors, and how societies are established and changed. (GC)

SOC-102  Social Problems of a Diverse Society
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This is a social problems course emphasizing the exploration of multicultural issues utilizing basic research methods. It is designed to provide a disciplined approach to investigating and understanding the various facets of our culturally diverse society. (GC)

SOC-105  Marriage and Family
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course deals with a study of the family as an institution. Emphasis is on developing interpersonal relationships, mate selection, and marital and parental roles. This course will study alternative lifestyles, sex roles in transition, and survey of current literature. (GC)

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

SOC-107  The World of Work
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
A study of the world of work from its historical development and meaning to its present position in our lives. Work will be examined in relationship to its influence on identity formation, the choice process, standard of living, life style, leisure, retirement, and self-fulfillment. (GC)

SOC-142  Sociology of Sport
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: KIN-242
Accepted For Credit: CSU
This course will examine the history of sport and its political, social, and economic impact on public opinion. This will include an investigation into the phenomenon of sport including cultural stratification, race, gender, education, economics, politics, and the mass media. (GC)

SPANISH
Division: Humanities, Social Sciences, and Mathematics

SPAN-101A  Elementary Spanish
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is an introduction to fundamentals of Spanish grammar through the development of speaking, reading, writing and listening skills. Course material is presented within the cultural context of Spanish-speaking countries. (GR)
SPAN-101 Elementary Spanish
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: SPAN-101A or two years high school Spanish, or permission from instructor
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course teaches essentials in Spanish conversation leading to the development of oral use of the Spanish language in everyday situations. Students will experience extensive oral practice of the language as well as essential grammatical fundamentals. (GC)

SPAN-102 Intermediate Spanish
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: SPAN-101B with grade of C or better or three years of high school Spanish
Accepted For Credit: CSU & UC
This course is the first half of Intermediate Spanish and a continuation of the SPAN-101 series. The course includes a more in-depth review of grammar, composition, development of conversation skills through an introduction to Spanish and Latin-American literature. Readings include short stories, essays, dramas, poetry, and journalism articles in Spanish. (GR)

SPAN-102B Intermediate Spanish
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: SPAN-102A with grade of C or better
Accepted For Credit: CSU & UC
This course is the second half of Intermediate Spanish and a continuation of SPAN-102A. The course continues with a more in-depth review of advanced grammar, composition, and development of conversation skills through an introduction to Spanish and Latin-American literature. Readings include short stories, essays, dramas, poetry, and journalism articles in Spanish. (GR)

SPAN-111 Individualized Spanish Lab
9.00 hrs lecture, 27.00 hrs lab
Units: 0.50
Accepted For Credit: CSU
This course involves individual and independent laboratory studies to increase students’ proficiency in oral and written Spanish. Repeatable = 3 times (GR)

SPAN-112 Individualized Spanish Lab
18.00 hrs lecture, 54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
This course involves individual and independent laboratory studies to increase students’ proficiency in oral and written Spanish. Repeatable = 3 times (GR)

SPAN-121A Beginning Conversational Spanish
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course teaches essentials in Spanish conversation leading to the development of oral use of the Spanish language in everyday situations. Students will experience extensive oral practice of the language as well as essential grammatical fundamentals. (GC)

SPAN-121B Beginning Conversational Spanish
54.00 hrs lecture
Units: 3.00
Prerequisite: SPAN-121A with grade of C or better or two years high school Spanish
Accepted For Credit: CSU
This course continues teaching the essentials in Spanish conversation leading to the development of oral use of the Spanish language in everyday situations. Students will experience extensive oral practice of the language as well as essential grammatical fundamentals. (GC)

SPCH-101 Introduction to Public Speaking
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
Practice public speaking through delivery techniques, organizing an outline and applying research methodology to support speech topic. (GR)

SPCH-102 Critical Thinking/Group Decision Making
54.00 hrs lecture
Units: 3.00
Prerequisite: Completion of ENGL-101A with a grade of C or better
Accepted For Credit: CSU & UC
Enhance small group communication and reasoning in the context of effective group decision making and problem solving. Emphasis on logical reasoning and the evaluation of evidence. (GR)

SPCH-103 Interpersonal Communication
54.00 hrs lecture
Units: 3.00
Advisory: Eligibility for ENGL-101A
Accepted For Credit: CSU & UC
Study and practice the principles of relational communication in intrapersonal and interpersonal relationships at home and work. (GR)

SPCH-104 Critical Thinking/Persuasion
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-151B
Advisory: ENGL-101A with grade of C or better
Accepted For Credit: CSU & UC
Learn persuasive techniques and develop critical thinking skills necessary to evaluate personal and public messages. Emphasis on logical reasoning, evaluation of evidence, and the development of a persuasive message. (GR)

SPCH-105 Intercultural Communication
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
Study the diversity of styles of verbal and nonverbal communication in different cultures. Emphasis on communicating effectively across cultures. (GR)
SPCH-106  Critical Thinking/Argumentation and Debate  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Advisory: ENGL-101A or SPCH-101 with a grade of C or better  
Accepted For Credit: CSU & UC  
Develop critical thinking through oral advocacy and debate. Emphasis on both written and oral arguments based on logic and reasoning. (GR)  

SPCH-107  Leadership Communication  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Explore and analyze how leadership theory can inform and direct the way leadership is practiced. Analyze traditional and interactional theories of leadership including the influences of culture and gender on leadership. Emphasis is on theory and practice. (GC)  

SPCH-108  Gender Communication  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: WS-108  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Examine the influence of gender and culture on communication in personal relationships, organizations, mass media and society. (GR)  

SPCH-110A1  Forensics Workshop  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Participate in or attend public speeches or performances in order to encourage community involvement. Repeatable = 3 times (GR)  

SPCH-110A2  Forensics Workshop  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Participate in or attend public speeches or performances in order to encourage community involvement. Repeatable = 3 times (GR)  

SPCH-110A3  Forensics Workshop  
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Participate in platform forensic speech activities including: informative speaking, persuasive speaking, impromptu, extemporaneous, speech to entertain, or communication analysis. Repeatable = 3 times (GC)  

SPCH-112A1  Argumentation and Debate Workshop  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Participate in or attend public meetings or debates in order to encourage critical thinking and community involvement. Repeatable = 3 times (GR)  

SPCH-112A2  Argumentation and Debate Workshop  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Participate in or attend public meetings or debates in order to encourage critical thinking and community involvement. Repeatable = 3 times (GR)  

SPCH-112A3  Argumentation and Debate Workshop  
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Participate in argumentation and debate; research significant contemporary problems; analyze issues, evidence, and logic; and present researched arguments. Repeatable = 3 times (GR)  

SPCH-114A1  Oral Interpretation Workshop  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Participate in or attend public performances of all genres of literature with an emphasis on the analysis and interpretation of the material. Repeatable = 3 times (GR)  

SPCH-114A2  Oral Interpretation Workshop  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Participate in or attend public performances of all genres of literature with an emphasis on the analysis and interpretation of the literature. Repeatable = 3 times (GR)  

SPCH-115  Career Communication  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: BA-115  
Advisory: Eligibility for ENGL-101A  
Accepted For Credit: CSU  
Develop vital communication skills for global and diverse professional environments including presentational skills, interviewing, meeting management, small group communication, and leadership skills. (GR)  

SPCH-122  Family Communication  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
Explore family communication processes, roles, decision-making techniques, and conflict management in traditional and nontraditional families. (GR)  

SPCH-130  Oral Interpretation of Literature  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: TD-130  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
Appreciate literature through oral performance and written literary analysis of poetry, prose, and drama. Students will analyze, interpret and communicate literature. (GC)  

SPCH-132  Voice and Diction  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: TD-132  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
Understand and improve the speaking voice through oral exercises that focus on expressiveness and articulation. Increase vocabulary and use the International Phonetic Alphabet in transcription and pronunciation. (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units:</th>
<th>Credits Accepted For</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Advisory</th>
<th>Cross-referenced Courses</th>
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<td>SPCH-150</td>
<td>Basic English Pronunciation Accent Reduction</td>
<td>3.00</td>
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<td>ELS-150</td>
<td>ART-100, IS-100, MUS-100</td>
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<td>TD-100</td>
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<td>ENGL-151B, ENGL-163</td>
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<td>TD-101</td>
<td>Introduction to World Theatre</td>
<td>3.00</td>
<td>CSU</td>
<td>ENGL-151B, ENGL-163</td>
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<td>TD-102</td>
<td>Introduction to Theatre Appreciation</td>
<td>3.00</td>
<td>CSU</td>
<td>ENGL-151B, ENGL-163</td>
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<td>TD-106</td>
<td>History of Television Broadcasting</td>
<td>3.00</td>
<td>CSU</td>
<td>BRDC-179</td>
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**TAGALOG**

Division: Humanities, Social Sciences, and Mathematics

- **TAG-181A** Conversational Tagalog
  - 54.00 hrs lecture
  - Units: 3.00
  - Advisory: Eligible for ENGL-151B and ENGL-163
  - Accepted For Credit: CSU
  - This course is designed to provide basic conversational skills in the Filipino language. Emphasis is placed on the basic usage, idioms, grammar, and structure of the Filipino language, as well as an introduction to Filipino culture and history. (GR)

- **TAG-181B** Conversational Tagalog
  - 54.00 hrs lecture
  - Units: 3.00
  - Prerequisite: TAG-181A
  - Accepted For Credit: CSU
  - This course is a continuation of Tagalog 181A with an emphasis on the structure of the Filipino language, building vocabulary and an increased understanding of the Filipino culture. (GC)

**THEATRE AND DANCE**

Division: Fine Arts, Business, and Communication Studies

- **TD-100** Survey of the Arts
  - 54.00 hrs lecture
  - Units: 3.00
  - Cross-referenced Course: ART-100, IS-100, MUS-100
  - Advisory: Eligible for ENGL-151B and ENGL-163
  - Accepted For Credit: CSU & UC
  - In this course theatre, art, and music are explored through discussion, historical review, and contemporary issues. The purpose of this course is to increase students' understanding and enjoyment of the arts. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

- **TD-101** Introduction to World Theatre
  - 54.00 hrs lecture
  - Units: 3.00
  - Corequisite: TD-101L
  - Advisory: Eligible for ENGL-151B and ENGL-163
  - Accepted For Credit: CSU & UC
  - This course covers the history of dramatic literature from the Golden Age through 20th Century. Students will focus on the style of writing, performance, and theatrical conventions of each period and how they relate to the society. Students will read plays, view productions, participate in guest lecture/demonstrations, and attend live performances. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

- **TD-102** Introduction to Theatre Appreciation
  - 36.00 hrs lecture
  - Units: 3.00
  - Advisory: TD-100
  - Accepted For Credit: CSU & UC
  - This course is a study of the combined elements of contemporary theatre through examination of audience/performer relationships and the organization of support personnel. The focus is on current and classical plays with special emphasis on dramatic analysis, cultural significance, and critical thinking. Mandatory attendance is required at selected Bay Area theatres at students' expense. Repeatable = 2 times (GC)

- **TD-106** History of Television Broadcasting
  - 54.00 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 Zworkin, 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  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: HIST-107  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This class examines the impact of film on our lives and history. Students will review films, discuss, and analyze techniques used. (GR)

TD-109  Theatre for Today  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is designed for those students who wish to explore and experience the contemporary world of theatre and how it relates to film, video, festivals, and the entertainment industry. This course examines all aspects of production: designing, producing, the audience experience, and employment opportunities. Students will learn through reading and research, viewing videos, attending live and recorded events, and student-generated reports. (GR)

TD-110  Introduction to Acting  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 1 time (GR)

TD-111  Intermediate Acting – Scene Study  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: TD-110  
Accepted For Credit: CSU  
This course is an advanced study in the principles and practices of contemporary acting techniques. Students will analyze and evaluate the acting theories of the Stanislavski system of acting, as assessed by the 20th century American acting leaders; i.e. Uta Hagen, Stella Adler, Michael Shurtleff, Lee Strasberg, and others. Students will apply these principles to their scene work, improvisation, and workshop exercises and evaluate their progress and that of their classmates. Repeatable = 1 time (GR)

TD-112  Acting Styles – Classical  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: TD-110 or equivalent  
Accepted For Credit: CSU & UC  
This course is a study of dramatic literature for the purpose of performance including major study of Shakespeare’s comedies, tragedies, and histories. Background examination and performance appraisal will highlight each area of study. The emphasis is upon performance of characters in monologue and scene work from selected comedies, histories, and tragedies. Nine plays will be studied and several will be viewed both live and on video. Repeatable = 1 time (GR)

TD-113  Screenwriting Basics  
54.00 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  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU & 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  Improvisation  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU & UC  
Students will learn how to improvise a story, character, setting, and costume. They will create through pantomime as well as vocal techniques. There will be public performances on tour and in conjunction with the student-directed one acts. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 1 time (GR)

TD-116  Acting Laboratory  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This laboratory class applies the knowledge and techniques gained in the production and technique classes. (GC)

TD-117A  Audition/Portfolio Preparation  
18.00 hrs lecture, 18.00 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 presentation techniques for regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

TD-117A1  Audition/Portfolio Preparation  
18.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
This course is designed to help prepare students for a professional audition/interview by developing performance selections, portfolio layouts, and presentation techniques for regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

TD-117A2  Audition/Portfolio Preparation  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course is designed to help prepare students for a professional audition/interview by developing performance selections, portfolio layouts, and presentation techniques for regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

TD-117D  Dance Performance Preparation  
54.00 hrs lab  
Units: 1.00  
This course is designed to prepare the student for professional level dance performance techniques. The student will learn dance styles and techniques, learn performance techniques, and then perform on stage in a professional level venue with a live audience. Repeatable = 3 times (GC)
TD-117 | Theatre Technology Lab  
27.00 hrs lab  
Units: 0.50  
This class provides hands on instruction in theatre technology, including lights, sound, and set construction. Repeatable = 3 times (GC)

TD-118 | Survey of Acting Techniques  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course is an active survey of, and participation in, a variety of public performance techniques, including scenework, monologues, reader's theatre, improvisation, radio plays, and theatre games. Repeatable = 2 times (GC)

TD-119 | Directing for the Stage  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: TD-110, TD-114  
Accepted For Credit: CSU & 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  
162.00 hrs lab  
Units: 3.00  
Prerequisite: Auditions (for actors only)  
Advisory: TD-110  
Accepted For Credit: CSU & UC  
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. There will be up to six productions, one of which may be a children’s/family program. Members of the company will be expected to participate in all phases of production, 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-120A4 | Student Repertory Theatre  
216.00 hrs lab  
Units: 4.00  
Prerequisite: Auditions (for actors only)  
Advisory: TD-110  
Accepted For Credit: CSU & UC  
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. There will be up to six productions, one of which may be a children’s/family program. Members of the company will be expected to participate in all phases of production. Repeatable = 3 times to a maximum of 9 units (GR)

TD-120B3 | Student Repertory Theatre  
162.00 hrs lab  
Units: 3.00  
Prerequisite: Auditions (for actors only)  
Advisory: TD-120A3 or TD-120A4  
Accepted For Credit: CSU & UC  
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. There will be up to six productions, one of which may be a children’s/family program. Members of the company will be expected to participate in all phases of production, particularly in the capacity of producer, director, designer, or other position of artistic or business leadership. Repeatable = 3 times to a maximum of 9 units (GR)

TD-120B4 | Student Repertory Theatre  
216.00 hrs lab  
Units: 4.00  
Prerequisite: Auditions (for actors only)  
Advisory: TD-120A3 or TD-120A4  
Accepted For Credit: CSU & UC  
This class is a combination of professional and educational theatre. Students will participate in acting and/or technical roles in a repertory company. There will be up to six productions, one of which may be a children’s/family program. Members of the company will be expected to participate in all phases of production, particularly in the capacity of producer, director, designer, or other position of artistic or business leadership. Repeatable = 3 times to a maximum of 9 units (GR)

TD-121A | Dance Rehearsal and Performance  
108.00 hrs lab  
Units: 2.00  
Advisory: Co-enrollment in a dance technique class  
Accepted For Credit: CSU & UC  
This class is an educational setting for dance performance. The students will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. Repeatable = 3 times (GC)

TD-121B | Dance Rehearsal and Performance  
162.00 hrs lab  
Units: 3.00  
Advisory: It is highly recommended that each student is co-enrolled in a dance technique class  
Accepted For Credit: CSU & UC  
This class is an educational setting for dance performance. The student will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. Repeatable = 2 times (GC)

TD-121C | Dance Rehearsal and Performance  
216.00 hrs lab  
Units: 4.00  
Advisory: It is highly recommended that each student is co-enrolled in a dance technique class  
Accepted For Credit: CSU & UC  
This class is an educational setting for dance performance. The student will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. Repeatable = 2 times (GC)

TD-121L | Dance Rehearsal and Performance Lab  
36.00 hrs lab  
Units: 0.00  
This class is an educational setting for dance performance. The student will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. This class is especially geared toward the first time performer. Repeatable = 3 times (NG)

TD-122 | Rehearsal and Performance  
108.00 hrs lab  
Units: 2.00  
Prerequisite: Auditions  
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110  
Accepted For Credit: CSU & UC  
This class is for students performing in a major college production. Enrollment is for the duration of the production. Repeatable = 3 times (GR)
Rehearsal and Performance

162.00 hrs lab
Units: 3.00
Prerequisite: Auditions
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110
Accepted For Credit: CSU & UC

This class is for students performing in a major college production. Enrollment is for the duration of the production. Repeatable = 3 times (GR)

Rehearsal and Performance

216.00 hrs lab
Units: 4.00
Prerequisite: Auditions
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110
Accepted For Credit: CSU & UC

This class is for students performing in a major college production. Enrollment is for the duration of the production. Repeatable = 3 times (GR)

Summerfest – Principals

378.00 hrs lab
Units: 7.00
Prerequisite: Audition
Accepted For Credit: CSU & UC

This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production in a principal role. Specific instruction will be given in acting, movement, speech, singing, and accents as they relate to the style and history of the period and to musical theatre specifically. Repeatable = 3 times (GC)

Summerfest – Featured Parts

327.00 hrs lab
Units: 6.00
Prerequisite: Audition
Accepted For Credit: CSU & UC

This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production in a feature role. Specific instruction will be given in acting, movement, speech, singing, and accents as they relate to the style and history of the period. Repeatable = 3 times (GC)

Summerfest – Chorus and Instrument Members

270.00 hrs lab
Units: 5.00
Prerequisite: Audition
Accepted For Credit: CSU & UC

This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production as a chorus or orchestra member. Specific instruction will be given in acting, movement, speech, music, and singing as they relate to the style and history of the period. Repeatable = 3 times (GC)

Summerfest – Technicians

378.00 hrs lab
Units: 7.00
Prerequisite: TD-150
Accepted For Credit: CSU & UC

This course is normally taught as an eight to ten-week summer session course. It is designed to familiarize and teach students the various technical aspects, such as set construction, lighting, costuming, makeup, publicity, and house management needed for the preparation and production of a major theatrical Summerfest production. Repeatable = 3 times (GC)

Oral Interpretation of Literature

54.00 hrs lecture
Units: 3.00
Cross-referenced Course: SPCH-130
Advisory: Eligibility for ENGL-101A
Accepted For Credit: CSU & UC

Appreciate literature through oral performance and written literary analysis of poetry, prose, and drama. Students will analyze, interpret, and communicate literature. (GR)

Voice and Diction

54.00 hrs lecture
Units: 3.00
Cross-referenced Course: SPCH-132
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC

Understand and improve the speaking voice through oral exercises that focus on expressiveness and articulation. Increase vocabulary and use the International Phonetic Alphabet in transcription and pronunciation. (GR)

Introduction to Chinese Dance

54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC

The students will be introduced to basic techniques and body rhythm of Chinese classical dance along with basic training in some Chinese folk dances. Repeatable = 3 times (GC)

Intermediate Chinese Dance

54.00 hrs lab
Units: 1.00
Advisory: This is an intermediate Chinese dance class, so the student should have a basic knowledge of Chinese dance prior to enrolling in the class
Accepted For Credit: CSU & UC

The students will continue the training in rudiments of Chinese classical and folk dance. The students will further develop basic techniques and body rhythm of Chinese classical dance and progress further into Chinese folk dance. Repeatable = 3 times (GC)

Dance for Musical Theatre

18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: TD-150
Accepted For Credit: CSU & UC

This class explores the various styles of dance found in musical theatre. Movement styles from different periods are also explored beginning with the 1920’s and continuing through current dance trends of Broadway and MTV. Repeatable = 3 times (GC)

Introduction to Ballet

18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC

This class introduces the rudiments of classical ballet to the beginning dance student. Students will develop the strength and coordination to perform the technical skills of basic ballet through barre and center work and by learning simple movement combinations. Ballet terminology will be covered. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)
TD-141B Intermediate Ballet
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This class continues the training in the rudiments of classical ballet for the beginning-intermediate student. The students will further develop the technical skills to perform intermediate-level steps and combinations of movement. Ballet terminology will be covered. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)

TD-142A Introduction to Jazz Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Students will learn the basic skill of jazz dance with emphasis on body alignment, strength, and coordination. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)

TD-142B Intermediate Jazz Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Students will work on more advanced skills and styles inherent in jazz dance. Class work will deal with technical skills, combinations of steps, and exploration of composition in jazz dance form. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

TD-142C Advanced Jazz Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & UC
Students will complete advanced skills inherent in jazz dance. This advance level technical jazz dance class will deal with leaps, turns, and technique as well as dance composition. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

TD-143A Introduction to Tap
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Students will study basic tap dance techniques and elementary tap dances. This class provides opportunities to develop coordination, rhythm, and performances skills. Some history of tap will be included. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

TD-143B Intermediate Tap
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Students will develop intricate skills in tap dancing by studying intermediate-level movements and combinations with some provision for student composition of dance. Performance skills will be included. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)

TD-143C Advanced Tap Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & UC
Students will continue to develop intricate skills in tap dancing by studying advanced rhythm patterns, movements, and combinations with some provision for student composition of dance. Performance skills will be included. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)

TD-144A Introduction to Modern Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Students will learn basic skills of modern dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)

TD-144B Intermediate Modern Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & 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. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)

TD-145A2 Introduction to Ballroom Dance
36.00 hrs lab
Units: 0.50
Advisory: TD-100
Accepted For Credit: CSU & UC
Students will learn basic steps and skills of ballroom dance with emphasis on body alignment, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

TD-145A3 Introduction to Ballroom Dance
54.00 hrs lab
Units: 1.00
Advisory: TD-100
Accepted For Credit: CSU & UC
Students will learn basic steps and skills of ballroom dance with emphasis on body alignment, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

TD-145A4 Introduction to Ballroom Dance
108.00 hrs lab
Units: 2.00
Advisory: TD-100
Accepted For Credit: CSU & UC
This course is a study of the combined elements of contemporary social dance, focusing on partnering, body deportment, rhythm, styling and co-ordination. Repeatable = 3 times (GC)

TD-145B2 Intermediate Ballroom Dance
36.00 hrs lab
Units: 0.50
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4, or equivalent
Accepted For Credit: CSU & UC
This course is an in-depth study of contemporary ballroom dance focusing on intricate partnering, balance, rhythm, styling, and step combinations and patterns. Repeatable = 3 times (GC)
**TD-145B3 Intermediate Ballroom Dance**  
54.00 hrs lab  
Units: 1.00  
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4, or equivalent  
Accepted For Credit: CSU & UC  
This course is an in-depth study of contemporary ballroom dance focusing on intricate partnering, balance, rhythm, styling, and step combinations and patterns. Repeatable = 3 times (GC)

**TD-145B4 Intermediate Ballroom Dance**  
108.00 hrs lab  
Units: 2.00  
Advisory: TD-100; TD-145A2, TD-145A3, TD-145A4, or equivalent  
Accepted For Credit: CSU & UC  
This course is an in-depth study of contemporary ballroom dance focusing on intricate partnering, balance, rhythm, styling, and step combinations and patterns. Repeatable = 3 times (GC)

**TD-146L Open Dance Lab**  
20.00 hrs lab  
Units: 0.00  
Corequisite: The student must currently be enrolled in a dance class on campus  
The student will have supervised and tutored studio time to perfect skills and techniques learned in the dance class. Repeatable = 3 times (NG)

**TD-147A Dance Company Repertoire I**  
108.00 hrs lab  
Units: 2.00  
Advisory: It is highly recommended that the student be co-enrolled in an intermediate or advanced level jazz or modern dance technique class  
Accepted For Credit: CSU & UC  
The student will be introduced to the art of performance dance. The student will utilize a fusion of diverse dance disciplines, cultural backgrounds, and personal experience for the expression and performance of advanced level choreography. The student will be introduced to new choreography with each enrollment. There may be performances off campus, such as field trips and tours. Repeatable = 3 times (GR)

**TD-147B Dance Company Repertoire II**  
108.00 hrs lab  
Units: 2.00  
Advisory: It is highly recommended that the student be co-enrolled in an intermediate or advanced level dance technique class  
Accepted For Credit: CSU & UC  
The student will continue to explore the art of performance dance. The student will utilize a fusion of diverse dance disciplines, cultural backgrounds, and personal experience for the expression and performance of advanced level choreography. The student will be introduced to new choreography with each enrollment. There may be performances off campus, such as field trips and tours. Repeatable = 3 times (GR)

**TD-148A2 Introduction to Hip Hop**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
Students will learn basic skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

**TD-148A3 Introduction to Hip Hop**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
Students will learn basic skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)

**TD-148B2 Intermediate Hip Hop**  
36.00 hrs lab  
Units: 0.50  
Prerequisite: Successful completion of TD-148A2 or A3  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
Students will learn, at an intermediate level, skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement and creative expression. Repeatable = 3 times (GC)

**TD-148B3 Intermediate Hip Hop**  
54.00 hrs lab  
Units: 1.00  
Prerequisite: Successful completion of TD-148A2 or TD-148A3  
Accepted For Credit: CSU & UC  
Students will learn, at an intermediate level, skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement and creative expression. Repeatable = 3 times (GC)

**TD-149 Choreography for Production**  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Corequisite: TD-124  
Accepted For Credit: CSU & UC  
Students will learn methods and elements of choreography and relate them to technical theatre elements of set, lighting, costuming, and sound. Repeatable = 1 time (GC)

**TD-150 Technical Theatre**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course introduces the theory and practice of technical theatre production. Emphasis is placed on theatre safety, scenery construction techniques and materials, and backstage procedures. Students receive hands-on training in the scene shop and as members of the stage crew of a department production. Repeatable = 3 times (GR)

**TD-152 Introduction to Lighting**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: TD-150  
Accepted For Credit: CSU & UC  
This course introduces the basic concepts, technology, and safe practices of electricity and lighting for live events. Lectures will focus on theory and practice, while lab will provide opportunities to use equipment in “real life” situations. Repeatable = 3 times (GC)

**TD-153 Scenic Painting**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: TD-150  
Accepted For Credit: CSU & UC  
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**
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & 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)

**TD-155A Costume Construction I**
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & 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**
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: TD-155A or equivalent
Accepted For Credit: CSU & 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**
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & 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**
36.00 hrs lecture, 54.00 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**
27.00 hrs lab
Units: 0.50
Accepted For Credit: CSU & 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**
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & 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**
108.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & 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**
162.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This lab provides hands-on instruction and practice in technical production for theatre, dance, and television. Repeatable = 3 times (GC)

**TD-160L Production Lab**
144.00 hrs lab
Units: 0.00
This class provides hands-on instruction in technical production for performers. Repeatable = 3 times (NG)

**TD-161 Stagecraft Lab (Theatre, Television, Dance)**
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), such as set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

**TD-162 Stagecraft Lab (Theatre, Television, Dance)**
108.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & UC
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), such as set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

**TD-163 Stagecraft Lab (Theatre, Television, Dance)**
162.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), such as set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

**TD-164 Stagecraft Lab (Theatre, Television, Dance)**
136.00 hrs lab
Units: 4.00
Accepted For Credit: CSU & UC
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), such as set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

**TD-169 Performance Practicum**
108.00 hrs lab
Units: 2.00
This class introduces the students to rehearsal and performance techniques specific to community and educational theatre. Repeatable = 3 times (GR)

**TD-170 Survey of Entertainment Design**
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course explores trends in entertainment design and technology through lectures and fieldtrips. Areas covered will include live performance, film and television, themed entertainment, retail and corporate events. The purpose of this course is to provide students with a broad overview of the field of entertainment design and technology with emphasis on current and future employment opportunities and the skills needed for them. (GC)
TD-171  3D Entertainment Design for Lighting  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: ID-155 or equivalent; TD-152  
Accepted For Credit: CSU  
This course focuses on the fundamentals of computer-aided design as related to lighting design for the entertainment industry. Using Mini-CAD design and drafting programs, this course will guide students through the process of creating lighting designs using three-dimensional models of theatres and other spaces. Repeatable = 1 time (CR)

TD-172  Intermediate Lighting for Stage, Television, and Live Events  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: TD-152 or stage/TV lighting experience  
Accepted For Credit: CSU  
This course offers project-based instruction on the equipment and techniques used in lighting. It will be divided into three sections, each of which will focus on a specific area of the entertainment industry: lighting for the stage, for television production, and for live events. Repeatable = 3 times (GC)

TD-173  Introduction to Moving Lights  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: TD-172  
Accepted For Credit: CSU  
This course offers an introduction to the technology and applications of intelligent lighting systems for the entertainment industry. The course and lab work will concentrate on the features and functions of a wide variety of lighting fixtures and control systems in use in the entertainment industry today. Repeatable = 3 times (GC)

TD-174  Intermediate Moving Lights  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Prerequisite: TD-173  
Advisory: TD-172  
Accepted For Credit: CSU  
This course builds upon the work done in TD-173. Students will begin designing with, and programming, intelligent lighting systems for different types of events (concerts, corporate parties, trade shows). More sophisticated work will be done in trouble shooting, servicing, and rigging, as well. Repeatable = 3 times (GC)

TD-175  Intermediate Sound for Stage, Television and Live Events  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: TD-152 or stage/TV sound experience  
Accepted For Credit: CSU  
This course offers project-based instruction on the equipment and techniques used in sound design, recording, and reinforcement. It will be divided into three sections, each of which will focus on a specific area of the entertainment industry: sound for the stage, for television production, and for live events. Repeatable = 3 times (GC)

TD-176  Digital Sound Editing for Stage and TV  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: TD-175, MUS-113  
Accepted For Credit: CSU  
This project-based course provides advanced, hands-on instruction in industry-standard digital sound editing and MIDI systems, including Peak, ProTools, and CueBase. The course is intended for students pursuing careers in audio/technology in the entertainment industry. Repeatable = 2 times (GC)

TD-178  Fundamentals of Rigging  
36.00 hrs lecture, 36.00 hrs lab  
Units: 2.00  
Advisory: TD-150; ability to climb ladders and lift 50 pounds  
This course offers an introduction to the rigging systems and equipment commonly used in the entertainment industry. Through a combination of classroom and lab, students will learn the fundamental concepts of safe rigging including load calculation and placement, safety devices, and fall protection. Students should be in good physical condition and must be able to climb ladders and lift fifty pounds. Repeatable = 1 time (GC)

TD-179  Introduction to Stage Management  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: ID-155 or equivalent, TD-152  
Accepted For Credit: CSU  
This course introduces the responsibilities, techniques, and tools of a modern stage manager for live and broadcast events. Areas covered will include creating schedules, promptbooks, and other paperwork; organizing and managing crew; managing production meetings; managing the rehearsal process; running performances. (GC)

TD-180  Make a Movie  
162.00 hrs lab  
Units: 3.00  
Cross-referenced Course: BRDC-180  
Accepted For Credit: CSU  
In this course students will participate in the production of episodic television programs. The positions for students include both talent and technical operations. Repeatable = 3 times (GR)

TD-181  Directing for the Camera  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-151B, TD-114  
Accepted For Credit: CSU  
Using three-camera technique, the students will produce and direct four dramatic scenes for television and one music video. Using single and multi-camera shots, students will produce, direct, and edit one dramatic scene. Repeatable = 2 times (GR)

TD-195A1  Work Experience Education – Vocational  
75.00 hrs lab  
Units: 1.00  
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  
150.00 hrs lab  
Units: 2.00  
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  
225.00 hrs lab  
Units: 3.00  
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  
300.00 hrs lab  
Units: 4.00  
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)
*** WOMEN'S STUDIES ***

Division: Humanities, Social Sciences, and Mathematics

**WS-101 Introduction to Gender and Women's Studies**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU

This course will focus on the questions and concepts in gender and women's studies, the development of U.S. feminism and feminist theory, and the globalization of feminism and feminist concerns. Central to this course will be the ways in which place, race, ethnicity, sexuality, gender orientation, class, and age shape women's experiences and the various socio-political meanings of gender. We will also examine the ways in which women have resisted inequality and effected social and political change. This course will be interdisciplinary in its approach, meaning that we will read feminist essays from a wide range of disciplines, including cultural studies, economics, history, philosophy, political theory, psychology, and sociology. In addition, we will conduct several small sociological experiments and observations, and we will watch excerpts of videos and films. (GC)

**WS-108 Gender Communication**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: SPCH-108
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC

Examine the influence of gender and culture on communication in personal relationships, organizations, mass media and society. (GR)

**WS-115 Women in Literature**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ENGL-115
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC

This course is a study of selected fiction, poetry, drama, and essays of British and American women writers past and present. (GC)

**WS-120 Women of the Western World**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-120
Advisory: ENGL-101A
Accepted For Credit: CSU & UC

This course is an interdisciplinary course involving an overview of women's traditional roles in the western world; the history of the feminist movement, past and present; and an attempt to define the changing role of women in a diverse contemporary American society. Cross-cultural information about women's roles in other societies will be regularly introduced. (GC)

**WS-132 Introduction to US Muslim Women and Islam**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU

This course is an in depth study of American Muslim women: their roots, beliefs, and practices; social, spiritual, and economic status; discriminatory treatment in education and employment; political involvement and socialization; and a comparative study of Muslim women to pre-Islamic, ancient, and Western women. (GR)

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**WS-150 Women's Health Issues**
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HLTH-150
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC

This course is a study of the contemporary issues affecting women's health at home and at work from biological, psychological, and sociological perspectives. Explore such topics as: mental health, sexuality, parenting, nutrition, exercise, rape and battery, aging, occupational health, and cultural diversity and the affects on women in American culture. (GC)

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*** WORK EXPERIENCE EDUCATION ***

Division: Counseling

**WEX-101 Introduction to Work Experience**
18.00 hrs lecture
Units: 0.00

Through a set of learning objectives established by the student, supervisor and instructor, students will enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Students in a job related to their major field of study will also improve job skills and analyze career opportunities and requirements. Repeatable = 3 times (NG)

**WEX-185A1 Work Experience Education**
75.00 hrs lab
Units: 1.00
Corequisite: WEX-101; Parallel plan (work and attend school at the same time): enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-185 units. Alternate plan (work and attend school alternately): enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the alternate plan; students may enroll in up to six semester units per semester. General limitations: Students may not enroll in WEX-185 and any 195 course 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-185A2 Work Experience Education**

150.00 hrs lab  
Units: 2.00  
Corequisite: WEX-101; Parallel plan (work and attend school at the same time): enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-185 units. Alternate plan (work and attend school alternately): enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the alternate plan; students may enroll in up to six semester units per semester. General limitations: Students may not enroll in WEX-185 and any 195 course 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-185A3 Work Experience Education**

225.00 hrs lab  
Units: 3.00  
Corequisite: WEX-101; Parallel plan (work and attend school at the same time): enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-185 units. Alternate plan (work and attend school alternately): enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the alternate plan; students may enroll in up to six semester units per semester. General limitations: Students may not enroll in WEX-185 and any 195 course 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**

75.00 hrs lab  
Units: 1.00  
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, 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 for a maximum of 6 units (GC)

**WEX-195A2 Occupational Work Experience Education**

150.00 hrs lab  
Units: 2.00  
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)

**WEX-195A3 Occupational Work Experience Education**

225.00 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 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)

**WEX-195A4 Occupational Work Experience Education**

300.00 hrs lab  
Units: 4.00  
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.
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 on the Fremont campus.

Information about policies and procedures relating to admission, residency and fees, and academic regulations are included in the related sections of this catalog.

ACADEMIC FREEDOM

The following academic freedom statement is from the Board of Trustees for the Ohlone Community College District Policy 4030.

- Reference: Title 5, Section 51023; Accreditation Standard II.A.7.
- Board Approved: 11/09/05

Citizens in a free society in order to discharge their responsibilities intelligently must examine, with critical judgment, all points of view on major issues.

The Governing Board of the Ohlone Community College District in order to create an environment and atmosphere most conducive to excellent teaching and to provide students with the most appropriate learning conditions approve the following policy for Academic Freedom:

The community having invested resources in a community college has the obligation to support and sustain an atmosphere which encourages the free exploration of ideas.

Academic Freedom includes the protection of the opportunity for the teacher to teach, and for the teacher and the student to study, without coercion, censorship, or other forms of restrictive interference and that academic freedom encourages the flow of ideas with the recognition that freedom to teach and freedom to learn imply both rights and responsibilities within the framework of the law.

Instructors as citizens, members of a learned profession, and representatives of the Ohlone Community College District shall be free from District censorship and discipline when speaking or writing. However, the special position of instructors imposes special obligations. Instructors as representatives of the District should be accurate, objective, exercise appropriate restraint, encourage a spirit of mutual respect for the opinion of others, and ensure the relevancy of subject matter to their instructional areas.
Teaching Controversial Subjects

Citizens in a free society in order to discharge their responsibilities fully and intelligently must examine, with critical judgment, all points of view regarding major issues of their day and nation.

A. Objectivity: Instructors shall maintain an attitude of objectivity on controversial topics when discussing them with students.

B. Respect for Others: Instructors shall encourage a spirit of mutual respect for honest and informed opinions, regardless of how divergent they may be.

C. Relevant Data: Instructors shall become fully informed about the various viewpoints on problems relevant to their instructional assignments and present pertinent and objective data to their students.

D. Suitable Learning Materials: Instructors and librarians shall make available a variety of suitable learning materials from which students may obtain valid data dealing with the pros and cons of issues being studied.

E. Time Consideration: A reasonable allocation of time shall be devoted to the study of any single issue, in accordance with the approved course outline and student needs.

EQUAL EDUCATIONAL AND EMPLOYMENT OPPORTUNITY

Ohlone College maintains an atmosphere that is welcoming to all students and conducive to their academic and personal success. The College provides an environment free of all forms of harassment, in which all students and employees are treated with dignity and respect.

Ohlone College is committed to equal opportunity in educational programs, employment, and campus life. The College does not discriminate on the basis of age, ancestry, color, disability, gender, marital status, national origin, parental status, race, religion, sexual orientation, or veteran status in any access to and treatment in College programs, activities, and application for employment.

Equal educational opportunity includes, but is not limited to, admission, recruitment, extracurricular programs and activities, facilities, access to course offerings, counseling and testing, financial assistance, employment, physical education, and athletics. Equal employment opportunity includes, but is not limited to, providing and safeguarding the opportunity for all persons to seek, obtain, and hold employment and qualify for advancement in the District without discrimination.

Ohlone College is committed to non-discrimination in compliance with the Civil Rights Act; Title IX of the Education Amendments of 1972; the Rehabilitation Act of 1973 (Sections 503 and 504); the Americans with Disabilities Act of 1990; Executive Orders 11246 and 11375; the Vietnam Era Veterans Readjustment Act of 1974; the Age Discrimination in Employment Act of 1967; and non-discrimination laws of the State of California.

Ohlone College is committed to the civil rights responsibilities spelled out in The Guidelines for Eliminating Discrimination and Denial of Services on the Basis of Race, Color, National Origin, Sex and Handicap in Education Programs, spelled out in Title VI of the Civil Rights Act. As such, the lack of English language skills will not be a barrier to admission and participation in vocational educational programs at Ohlone College.

Inquiries regarding equal opportunity and non-discrimination may be made as follows:

Staff inquiries to:

Associate Vice President, Human Resources and Training
Ohlone College
Building 1
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-6088

Student inquiries to:

Vice President, Student Development
Ohlone College
Building 7
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-6262

or

Associate Vice President, Newark Center for Health Sciences and Technology
Ohlone College
Newark Center for Health Sciences and Technology, Room NC1217
39399 Cherry Street
Newark, CA 94560
(510) 742-2302

Inquiries related to Title IX and Title IX compliance may be made as follows:

Staff inquiries to:

Associate Vice President, Human Resources and Training
Ohlone College
Building 1
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-6088

Student inquiries to:

Vice President, Academic Affairs/Deputy Superintendent
Ohlone College
Building 1
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-6220

or

Associate Vice President, Newark Center for Health Sciences and Technology
Ohlone College
Newark Center for Health Sciences and Technology, Room NC1217
39399 Cherry Street
Newark, CA 94560
(510) 742-2302

Inquiries related to compliance with the Americans with Disabilities Act and the Rehabilitation Act of 1973 may be made as follows:

Vice President, Administrative Services
Ohlone College
Building 1
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-7307

or

Associate Vice President, Newark Center for Health Sciences and Technology
Newark Center for Health Sciences and Technology, Room NC1217
39399 Cherry Street
Newark, CA 94560
(510) 742-2302

(continued on next page)
Inquiries related to Sexual Harassment may be made as follows:

Staff inquiries to:
Associate Vice President, Human Resources and Training
Ohlone College
Building 1
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-6088

Student inquiries to:
Vice President, Student Development
Ohlone College
Building 7
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-6262

or

Associate Vice President, Newark Center for Health Sciences and Technology
Newark Center for Health Sciences and Technology, Room NC1217
39399 Cherry Street
Newark, CA 94560
(510) 742-2302

Spanish, Chinese, Vietnamese, and Farsi versions of the Equal Educational and Employment Opportunity Policy are available in the Class Schedule.

POLICIES AND PROCEDURES, STUDENT LIFE

Copies of policies and procedures which relate specifically to student life are available from a distribution rack in Building 7, first floor on the Fremont campus and online at http://www.ohlone.edu/org/studentservices. 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.

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 on the Fremont campus 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 Director, Admissions and Records or with the Vice President, Student Development. All such requests for review will be honored within fifteen working days.

Students do not have access to:
- Information provided by a student's parents relating to applications for financial aid or scholarships;
- Physicians', psychiatrists', or psychologists' reports;
- Information maintained by Campus Security;
- Instructors' personal records regarding a student.

ACADEMIC DISHONESTY AND ITS CONSEQUENCES

Students at Ohlone College are expected to pursue their course work with integrity and honesty. Academic dishonesty occurs when a student attempts to show possession of a level of knowledge or skill which he or she does not possess. The two most common kinds of academic dishonesty are cheating and plagiarism. Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of dishonest, deceptive, or fraudulent means. Plagiarism is when students represent the work of someone else as their own and submit it to fulfill academic requirements. Students are responsible for knowing what constitutes academic dishonesty and for consulting with instructors about questions or concerns. Copies of the Policy on Academic Dishonesty are available from the information rack in Building 7, first floor on the Fremont campus; from the Vice President, Student Development, Fremont campus; and online at http://www.ohlone.edu/org/studentservices/academicdishonesty.html.

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 non-discrimination 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 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 the student wishes to make an appointment for an informal meeting to review an action within ten days of its occurrence. In the absence of the instructor or staff person and after a good faith effort to make contact, the student may directly contact the Division Dean. Additional information is available from the Vice President, Student Development on the Fremont campus and from the Associate Vice President, Newark Center for Health Sciences and Technology on the Newark campus.

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 7, first floor on the Fremont campus, and online at http://www.ohlone.edu/org/student-services/docs/titleixcomplaintprocedures.pdf. The Vice President, Academic Affairs/Deputy Superintendent, 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 7, first floor on the Fremont campus; from the Vice President, Student Development on the Fremont campus; and online at http://www.ohlone.edu/org/student-services/docs/complaintprocedures.pdf. The Vice President, Administrative Services 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 7, first floor on the Fremont campus; from the Vice President, Student Development on the Fremont campus; and online at http://www.ohlone.edu/org/student-services/docs/complaintprocedures.pdf. The Vice President, Academic Affairs/Deputy Superintendent serves as the compliance officer of all the above except ADA and Rehabilitation Act of 1973 complaints. The Vice President, Administrative Services serves as the compliance officer for ADA and Rehabilitation Act of 1973 complaints.

Students wishing to pursue a civil rights complaint beyond the college level should direct their inquiries to the Office of Civil Rights, United States Department of Education, 50 United Nations Plaza, Room 259, 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 laws. Engaging in sexual harassment and/or sex discrimination within the College environment and during any off campus College sponsored activities is unacceptable and shall be a violation of this policy. Sanctions shall be taken against any student, employee, or non employee conducting business with the District who engages in sexual harassment and/or sex discrimination.

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.

Did you know???

In 2008-2009 Ohlone’s youngest student was nine years old and the oldest student was 87 years old.
COMPLAINT PROCESS

Ohlone College encourages prompt reporting of complaints so that rapid response and appropriate action may be taken. Information on the process, timelines, and forms to make an informal or formal complaint is available from the office of the Vice President, Student Development located in Building 7, first floor on the Fremont campus, (510) 659-6262 or from the office of the Associate Vice President, Newark Center for Health Sciences and Technology, located in room NC1217, Newark campus, (510) 742-2302.

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

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 at the Fremont campus. At the Newark Center for Health Sciences and Technology campus smoking is also prohibited in the parking lots, as the entire campus is smoke free.

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 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 76957. 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 Vice President, Student Development, until date of removal of the disciplinary status.

4. Discipline policies (informal and formal) and Due Process Procedures are stated in the full policy and procedures document regarding student conduct.

STUDENT RIGHT-TO-KNOW

In compliance with the Student-Right-to-Know (SRTK) and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the Ohlone Community College District 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 66 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 2000.

### Completion Rate

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
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<tbody>
<tr>
<td>Ohlone College</td>
<td>40.2%</td>
<td>41.9%</td>
<td>39.0%</td>
<td>45.2%</td>
<td>25.6%</td>
</tr>
<tr>
<td>Statewide</td>
<td>33.7%</td>
<td>35.3%</td>
<td>36.0%</td>
<td>35.6%</td>
<td>24.8%</td>
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### Transfer Rate

<table>
<thead>
<tr>
<th></th>
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<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohlone College</td>
<td>19.6%</td>
<td>20.6%</td>
<td>45.1%</td>
<td>13.8%</td>
<td>27.1%</td>
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<tr>
<td>Statewide</td>
<td>22.1%</td>
<td>21.4%</td>
<td>29.6%</td>
<td>17.0%</td>
<td>25.1%</td>
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</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.

(continued on next page)
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 Term 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 and Newark Police Department—which includes records, patrol, investigative, communications, and incarceration support—is maintained at the Campus Police Services Office. Fremont Police or Newark 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 and the complaining party is transported to the hospital via ambulance.

Security of Facilities

Unauthorized persons are not allowed into buildings that are secured for evenings, weekends, and holidays. If an individual needs to gain entry into a building Campus Police Services personnel must first check that person’s identification (unless the person is known). An entry is then made in the activity log stating the building, time, date, and name of the person allowed into the building. Campus Police Services has the authority to request Facilities staff to respond to situations that present a threat to the public safety and/or liability of the District.

Parking Policies

All parking rules are enforced during instructional periods and on weekends when special events or classes are being held. Most parking lots are open to students, visitors, and guests with the exception of parking lots A and B (except after 5:00pm); C (staff stalls only); Q, T, and W on the Fremont campus and those spaces designated as Administration or Police/Emergency Vehicle on the Newark campus. See the Ohlone College campus maps for disabled parking locations; these are indicated with an asterisk (*).

Parking vending machines are available in each lot on the Newark campus and in lots C, D, H, M, and P on the Fremont campus for visitors, guests, and students to purchase daily parking permits. Lot N is restricted to carpool, Disabled parking, and coin operated meter parking. These parking stalls are used by visitors, guests, and students for up to one-hour parking. Daily and semester permits are not valid in metered parking.

Daily permits are valid at both campuses for the day purchased, regardless of which campus it was purchased at. Semester permits are valid on both campuses but are not valid in lots M, N, or O on the Fremont campus.

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 7, second floor on the Fremont campus.

Did you know???

24% of all community college students nationwide are enrolled in a California community college.

Parking Rules

1. Cars must park in marked stalls only, not on roadways, paths, etc.
2. Vehicles must be parked front bumper to front bumper. Do not back into stalls.
3. Motorcycles must be parked in the reserved motorcycle area in Lot W. Motorcycles and bicycles are prohibited on campus walkways and in buildings.
4. Vehicles parked in permit only zones without the necessary permit are subject to citation or storage (towing).
5. Yellow loading zones are for use by vendors and staff who must deliver bulky items. These zones are restricted to 15 minute parking.
6. Government vehicles engaged in required duties may park in all areas except fire lanes and disabled lots.
7. The use of skateboards and similar devices are prohibited on campus.
8. Driving is permitted on paved roads only.
9. The Fremont and Newark campuses are closed from 11:00pm-6:00am.

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. To report directly to the Newark campus, use extension 2311 on campus or (510) 742-2311 if using a non-campus phone.

If a parking vending machine is broken, Campus Police Services should be notified immediately at (510) 659-6111 or extension 6111 on campus. If using a non-campus phone, call Campus Police Services by dialing extension 2311 on the Newark campus.

On the Fremont campus 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.

On the Newark campus emergency phones are located in each parking lot, marked with a blue pole with a blue light on top. On the Fremont campus 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 Fremont campus payphones can be used at no charge to call Campus Police Services by dialing extension 6111.

*81. Phones in the campus elevators also call Campus Police Services directly. Campus Police Services has a 24-hour hotline recording (510) 979-7997 which may be used to report crime or suspicious events.

For more information contact Campus Police Services in Building 20 or call (510) 659-6111 or go to the Campus Police Services Web site at http://www.ohlone.edu/org/security/.

2009-2010 OHLONE COLLEGE CATALOG
CHAPTER

DISTRICT PERSONNEL

Gari Browning
President/Superintendent

James Wright
Vice President, Academic Affairs/
Deputy Superintendent

Michael Calegari
Vice President,
Administrative Services

Ron Travenick
Vice President,
Student Development

Leta Stagnaro
Associate Vice President,
Newark Center for Health
Sciences and Technology
**ADMINISTRATION**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kathleen Johnson</td>
<td>Dean, Fine Arts, Business, and Communication Studies</td>
</tr>
<tr>
<td>Michael Bowman</td>
<td>Dean, Institutional Research and Planning</td>
</tr>
<tr>
<td>Martha Brown</td>
<td>Dean, Counseling</td>
</tr>
<tr>
<td>Gari Browning</td>
<td>President/Superintendent</td>
</tr>
<tr>
<td>Lesley Buehler</td>
<td>Dean, Learning Resources and Academic Technology</td>
</tr>
<tr>
<td>Michael Calegari</td>
<td>Vice President, Administrative Services</td>
</tr>
<tr>
<td>Gale Carli</td>
<td>Vice President, Administrative Services</td>
</tr>
<tr>
<td>Genie Gertz</td>
<td>Dean, Health Sciences and Environmental Studies</td>
</tr>
<tr>
<td>Ronald Quinta</td>
<td>Associate Vice President, Newark Center for Health Sciences and Technology</td>
</tr>
<tr>
<td>Joanna Schultz</td>
<td>Dean, Business Services</td>
</tr>
<tr>
<td>Mikelynn Stacey</td>
<td>Dean, Humanities, Social Sciences, and Mathematics</td>
</tr>
<tr>
<td>Leta Stagnero</td>
<td>Associate Vice President, Newark Center for Health Sciences and Technology</td>
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<tr>
<td>Ron Travenick</td>
<td>Vice President, Student Development</td>
</tr>
<tr>
<td>Christopher Warden</td>
<td>Director, Athletics and Exercise Science</td>
</tr>
<tr>
<td>James Wright</td>
<td>Vice President, Academic Affairs/Deputy Superintendent</td>
</tr>
<tr>
<td>Vacant</td>
<td>Associate Vice President, Human Resources and Training</td>
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</table>

**MANAGEMENT**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Department</th>
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<tbody>
<tr>
<td>Kelly Abad</td>
<td>Executive Assistant to the Vice President, Administrative Services</td>
</tr>
<tr>
<td>Patrice Birkedahl</td>
<td>Director, College Advancement; Public Information Officer</td>
</tr>
<tr>
<td>Christopher Booras</td>
<td>Director, Theatre Operations</td>
</tr>
<tr>
<td>Ann Burdett</td>
<td>Director, Disabled Students Programs and Services</td>
</tr>
<tr>
<td>Sarah Daniels</td>
<td>Assistant to the President/Superintendent</td>
</tr>
<tr>
<td>Robert Dochterman</td>
<td>Director, Radio Operations</td>
</tr>
<tr>
<td>Tina Dodson</td>
<td>Director, One Stop Career Center</td>
</tr>
<tr>
<td>Elva Duval</td>
<td>Senior Human Resources Specialist</td>
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<tr>
<td>Ramona Farley</td>
<td>Bookstore Manager</td>
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<tr>
<td>Mannmohan Gill</td>
<td>Custodian/Grounds Supervisor</td>
</tr>
<tr>
<td>Deborah Griffin</td>
<td>Custodian, Financial Aid</td>
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<tr>
<td>Kathleen Johnson</td>
<td>Senior Human Resources Specialist</td>
</tr>
<tr>
<td>Gary Kauf</td>
<td>Director, Television Operations</td>
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<tr>
<td>Lucky Loften</td>
<td>Director, Facilities</td>
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<tr>
<td>Barbara Marcum</td>
<td>Senior Human Resources Specialist</td>
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<tr>
<td>Danny Navarrete</td>
<td>Work Study Coordinator</td>
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<tr>
<td>Steven Osawa</td>
<td>Staff Assistant/Assistant</td>
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<tr>
<td>Kimberly Robbie</td>
<td>Director, Curriculum and Scheduling</td>
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<tr>
<td>Mark Robbins</td>
<td>Director, Purchasing, Contract Administration, and Auxiliary Services</td>
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<tr>
<td>Jill Rojas</td>
<td>Executive Assistant to the Vice President, Student Development</td>
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<tr>
<td>Marlene Rose</td>
<td>Duplicating Services Supervisor</td>
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<tr>
<td>Josefina Sette</td>
<td>Project Manager, Beta Grant</td>
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<tr>
<td>William Sharar</td>
<td>Director, ESS Program Coordinator</td>
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<tr>
<td>Dave Smith</td>
<td>Executive Director, Ohlone College Foundation</td>
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<tr>
<td>Pam Smend</td>
<td>Gallaudet Regional Supervisor</td>
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<tr>
<td>Anuradha Suresh</td>
<td>WIB Program Training Coordinator</td>
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<tr>
<td>Connie Teshara</td>
<td>Executive Assistant to the Vice President, Academic Affairs/Deputy Superintendent</td>
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<tr>
<td>Debra Trigg</td>
<td>Director, Campus Activities and Extended Opportunity Programs and Services</td>
</tr>
<tr>
<td>Edward West</td>
<td>Director, International Programs and Services</td>
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<tr>
<td>Christopher Williamson</td>
<td>Director, Admissions and Records</td>
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<tr>
<td>Kelly Wilmeth</td>
<td>Interpreting/Assistance Services Supervisor</td>
</tr>
<tr>
<td>Vacant</td>
<td>Bio Tech Program Coordinator</td>
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<tr>
<td>Vacant</td>
<td>Director, Community Education and K-12 Partnerships</td>
</tr>
<tr>
<td>Vacant</td>
<td>Lead Senior Human Resources Specialist</td>
</tr>
<tr>
<td>Vacant</td>
<td>Manager, Entrepreneurial Ventures</td>
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**BOARD OF TRUSTEES**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Greg Bonaccorsi</td>
<td>Chairman, Board of Trustees</td>
</tr>
<tr>
<td>Teresa Cox</td>
<td>Chair, Board of Trustees</td>
</tr>
<tr>
<td>Bill McMillin</td>
<td>Chair, Board of Trustees</td>
</tr>
<tr>
<td>Nick Nardolillo</td>
<td>Chair, Board of Trustees</td>
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<tr>
<td>Richard Watters</td>
<td>Chair, Board of Trustees</td>
</tr>
<tr>
<td>John Wood</td>
<td>Chair, Board of Trustees</td>
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<tr>
<td>Garrett Yee</td>
<td>Chair, Board of Trustees</td>
</tr>
<tr>
<td>Lauren Baca</td>
<td>Student Board Member</td>
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**EMERITUS OHLONE COLLEGE PERSONNEL**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Department</th>
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<tbody>
<tr>
<td>Alexander, Norma</td>
<td>Professor, Mathematics</td>
</tr>
<tr>
<td>Ames, Elaine C.</td>
<td>Instructional Assistant, Typing</td>
</tr>
<tr>
<td>Anderson, Robert H.</td>
<td>Bookstore Manager</td>
</tr>
<tr>
<td>Archer, Dan</td>
<td>Board of Trustees</td>
</tr>
<tr>
<td>Barber, Lola</td>
<td>Professor, Biology</td>
</tr>
<tr>
<td>Bartlett, Donna J.</td>
<td>Program Specialist</td>
</tr>
<tr>
<td>Bell, Clayton L.</td>
<td>Professor, Counseling</td>
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<tr>
<td>Bischer, Dolores E.</td>
<td>Instructional Assistant, Reading Lab</td>
</tr>
<tr>
<td>Blanchard, Janice M.</td>
<td>Director General Services/Purchasing</td>
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<tr>
<td>Blanchard, Ward S.</td>
<td>Director of Library Services</td>
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<tr>
<td>Blomérey, Peter</td>
<td>Professor, President/Superintendent</td>
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<tr>
<td>Blum, William E.</td>
<td>Professor, Psychology</td>
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<tr>
<td>Boggs, Charles E.</td>
<td>Professor, Medical Office Assistant</td>
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<tr>
<td>Briggs, Robert L.</td>
<td>Professor, Drafting; Dean, Occupational Education and Grants</td>
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<tr>
<td>Burdett, Ronald C.</td>
<td>Professor, Dean, Deaf Studies and Special Services</td>
</tr>
<tr>
<td>Burri, Barbara M.</td>
<td>Professor, Early Childhood Studies</td>
</tr>
<tr>
<td>Cardinale, Anthony C.</td>
<td>Professor, History</td>
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<tr>
<td>Carr, Colleen M.</td>
<td>Chief, Safety/Security Officer</td>
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<tr>
<td>Carr, Colleen M.</td>
<td>Director, One Stop Career Center</td>
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<tr>
<td>Chitwood, Roy</td>
<td>Instructional Assistant, Math Learning Center</td>
</tr>
<tr>
<td>Clamp, Betty A.</td>
<td>Professor, Consumer &amp; Family Sciences</td>
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<tr>
<td>Cole, L. Stacy</td>
<td>Professor, History</td>
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<tr>
<td>Collins, Miloslava</td>
<td>Professor, French and German</td>
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<tr>
<td>Crogan, Jack</td>
<td>Professor, Physical Education</td>
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<tr>
<td>Dark, Anitra H.</td>
<td>Associate Professor, English/Writing Lab</td>
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<tr>
<td>DeBenito, Raphael</td>
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<tr>
<td>Deggelman, Patricia A.</td>
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<tr>
<td>dela Cruz, Juan</td>
<td>Custodian</td>
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<tr>
<td>DeWein, Catherine T.</td>
<td>Senior Office Assistant</td>
</tr>
<tr>
<td>DeVitt, Howard</td>
<td>Professor, History</td>
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<tr>
<td>Dilullo, Guy T.</td>
<td>Professor, Mathematics</td>
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</table>
  Professor, English

Duman, Nancy A. (1972-1992)
  Professor, Nursing

  Professor, Engineering

  Professor, Business/Work Experience Education

  Professor, Library Media

  Professor, Library Media

  Professor, Library Media

Fowley, Allen J. (1966-1990)
  Professor, Library Media

Fuerniss, Gloria Villasana (1979-1997)
  Professor, Library Media

  Professor, Library Media

  Professor, Biology

Halland, Walter (1971-2000)
  Professor, Business Administration

  Professor, Counseling

Halverson, Ronald (1977-1995)
  Assistant Professor, Landscape/Horticulture

  Professor, Art

Hendrickson, Barbara C. (1967-1989)
  Professor, English

Hendrickson, Karen M. (1990-2001)
  Board of Trustees

  President/Superintendent

Hurtado, Jose (1972-2006)
  Professor, Counseling and Personal Development

  Assistant to the 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

Klint, Jim (1967-2005)
  Professor, Chemistry

  Professor, Business Office Technology

  Word Processing Specialist

Kruppenbacher, Judith E. (1969-2001)
  Professor, Psychology/Counseling

Landavazo, James A (1974-2006)
  Professor, Library Media

  Custodian/Pool Maintenance

Leclercq-Rotar, Joan (1967-2000)
  Professor, Business Office Technology

  Adjunct Instructor, Theatre Arts

Limón, Shariene (1974-2007)
  Dean, Health Sciences

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

Morrison, Margaret S. (1972-2000)
  Professor, Speech

Nagel, Sheldon (1968-1997)
  Professor, History; Division Dean, Math, Social and Natural Sciences

Nakasako, Frank (1968-1988)
  Assistant Dean of Counseling

  Professor, Hearing Impaired

  Professor, Mathematics

  Professor, Administration of Justice

Pavel, Marilyn J. (1967-2001)
  Professor, Biology

  Professor, Physical Education

Peck, Adam (1999-2005)
  Professor, Computer Studies

Penso, Kyoko (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

Roby, Dennis (1971-2004)
  Professor, Philosophy

Rosenbaum, Karen (1967-2001)
  Professor, English

Sanchez, Maria L. (1984-2000)
  Assistant Professor, Tutorial Coordinator

  Board of Trustees

Schurtz, Lamar (1987-2007)
  Building Trades/Maintenance Plumber

  Professor, English

Seiden, Robert M. (1968-2001)
  Professor, Psychology

  Coordinator, Career Planning & Placement Center

Smith, Gary Soren (1967-1993)
  Division Director

  Work Processing Operator

Smith, Ollie M. (1975-2000)
  Accounting Technician II

  Associate Professor, Administration of Justice

Soracco, Carla (1978-1995)
  Professor, Physical Education

Staszek, Ronald (1977-2007)
  Professor, Mathematics

  Professor, Philosophy

Stillman, Barton G. (1968-1994)
  Professor, Computer Studies

Stocking, Arlene V. (1974-1992)
  Instructional Assistant, Early Childhood Studies
DISTRICT PERSONNEL

Ganguly, Anusree
Professor, Chemistry
B.S., Sophia College, University of Bombay, India; M.S., Institute of Science, Bombay, India; Ph.D., Southern Illinois University

Gao, Yong
Professor, Computer Science
M.S., Ph.D., Southern Illinois University

Gertz, Eugenie
Dean, Deaf Studies
B.A., Gallaudet University; M.A., New York University; Ph.D., University of California, Los Angeles

Grant, Maria-Eugenia
Associate Professor, Chemistry
B.S., Ph.D., National University of Mexico; M.S., University of Delaware

Greenstein, Kathleen “K.G.”
Associate Professor, Information Literacy/Collection Development Librarian
B.A., California State University, Chico; M.L.S., San Jose State University

Groten, Richard
Professor, Computers, Networks, and Emerging Technology
B.A., M.A., San Jose State University

Harper, Jennifer
Associate Professor, Counselor
B.A., Sanoma 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.S., Pacific Graduate School of Psychology

Headley, Vrontoa
Assistant Professor, Counseling
B.A., M.A., San Jose State University

Helms, Sheldon
Associate Professor, Psychology
B.A., M.A., California State University, Bakersfield

Hille, Fred
Professor, Counseling/Physical Education
A.A., Chabot College; B.S., M.A., California State University, Fresno

Hirsch, Geoffrey
Professor, Mathematics
B.A., University of California, Berkeley; M.A., University of the Philippines

Holcomb, Thomas
Professor, Deaf Studies/ASL
B.A., Gallaudet University; M.S., Rochester Institute of Technology; Ph.D., University of Rochester

Honma, Chikko
Assistant Professor, Mathematics
B.S., M.S., San Jose State University

Hurley, Jennifer
Assistant Professor, English
B.A., University of California, San Diego; M.A., Boston University

Issel-Tarver, Laurie
Assistant Professor, Biotechnology; Coordinator
B.S., Louisiana University; Ph.D., University of California, Berkeley

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
Professor, Mathematics
B.A., M.S., Montmouth College

Kaufman, Margaret
Professor, Biology
B.S., Cornell University; M.A., Ph.D., Princeton University

Kawasaki-Hull, Kerrie
Professor, English
B.A., 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
Assistant Professor, 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; Deaf Students/Amrican 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

Kurotori, Robin
Associate Professor, Health/Fitness and Wellness
B.A., University of California, Davis; M.S., California State University, East Bay

Kwok-Yip, Mandy
Assistant Professor, Counselor
Special Education Teaching Credential, Sir Robert Black College of Education, Hong Kong; M.A., San Jose State University

Lawrence, Shelley
Professor, Deaf Studies/Interpreting/Amrican 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

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

Lokianoff, Victoria
Assistant Professor, Mathematics
M.S., Technical University of Wroclaw, Poland

Luckowski, Cynthia
Professor, Art
B.F.A., University of Dayton; M.F.A., Mills College

MacEwan, Jesse
Instructor, Counselor
B.A., M.A., San Francisco State University

Madden, Carmen
Assistant Professor, English
AA, Chabot College; B.A., M.A., San Francisco State University

Maskatia, Shrin
Professor, English Composition
B.A., St. Xavier's College, India; M.A., Ph.D., Cornell University

Massimo, Teresa
Associate Professor, Speech and Communication Studies
B.A., California State University, Fresno; M.A., California State University, Chico

McCarty, Heather
Associate Professor, History
B.S., University of California, Los Angeles; M.A., Ph.D., University of California, Berkeley

McDowell, J. Michele
Associate Professor, Early Childhood Studies
B.S., California State Polytechnic University, Pomona; M.A., University of California, Irvine; M.S., California State University, Hayward

McKennon, Thomas
Professor, Psychology
B.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, Kenney
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
Assistant Professor, Mathematics
B.S., Lowell Technological Institute; M.S., University of Massachusetts

Mishra, Gajendra (Gary)
Professor, Engineering
B.S., University of Ranchi, India; M.S., University of Hawaii

Mitchell, Robert
Associate Professor, English
B.A., Abilene Christian College; M.A., Lone Mountain College; M.A., Holy Names College

Morodomi, Carol
Assistant Professor, Physical Therapist Assistant; Program/Academic Coordinator Clinical Education (ACCE)
B.S., M.P.T., California State University, Fresno

Mosleh, Fatemeh (Tina)
Assistant Professor, Economics
B.A., M.A., San Jose State University

Mueller, Paul
Assistant Professor, Art (Photography)
B.A., San Francisco Art Institute; M.F.A., Stanford University

Munding, Tania
Professor, Mathematics
M.A., Saratov State University of Chernyshevsky, 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

Nelson, Mark
Professor, Theatre Arts
B.A., California Lutheran College; M.A., University of Arizona; M.F.A., University of California, Los Angeles

Nguyen, Anh
Instructor, Mathematics
B.S., University of California, Davis; M.S., San Jose State University

Nicolls, Yvette
Professor, Chemistry
B.S., M.A., Stanford University; B.A., M.S., California State University, Hayward

O'Connell, Jeffrey
Associate Professor, Mathematics
B.A., Diablo Valley College; B.S., University of California, Davis; M.S., San Jose State University
Donna Runyon has been the softball coach at Ohlone for 20 years and has led the women’s softball team to over 700 wins.
Photo courtesy of Don Jedlovec.
Burdett, Regina
Staff Interpreter II
Interpreting Services

Calvert, Shirley
Career Center Case Manager
One-Stop Career Center

Cardenas, Victor
DSPS Instructional Assistant
Disabled Students Programs and Services

Cattivella, Kara
Staff Interpreter II
Interpreting Services

Chan, Darlene
Staff Interpreter II
Interpreting Services

Chen, Guang-Wen (Kevin)
Systems and Applications Administrator
Information Technology

Chevalier, Jolie
Student Services Assistant
Office of Admissions and Records

Chi, Ying-Chao
Accounting Technician IV
Business Services

Clark, Keith
Skilled Maintenance Mechanic Carpenter/Locksmith
Facilities

Clark, Monique
Staff Interpreter I
Interpreting Services

Collins, Julie
Theatre Operating Assistant
Division of Fine Arts, Business, and Communication Studies

Collopy, Alma
Senior Office Assistant
Campus Police

Cragen, Elliott
Staff Interpreter I
Division of Deaf Studies and Special Services

Criss, Liz
Desktop Support Services Technician II
Information Technology

Curtis, Bobbie Jo
Executive Assistant
Business Services

Damani, Arti
Accountant
Business Services

Davis, Jona
Program Secretary/Assistant
Workability III

Dawson, Stewart
Security Officer II
Campus Police

DeFrance, Brian
Plumber
Facilities

Dempsey, James
Custodian
Facilities

Dickerman, Linda
Learning Resources Specialist
Division of Learning Resources and Academic Technology

Dinh, Minh
Financial Aid/Admissions and Records Communications Management Technician
Office of Financial Aid

Driver, Dennis
Computer Lab Coordinator
Information Technology

Duke, William
Research and Systems Analyst
Information Technology

Dulalia, Gerry
Staff Interpreter I
Interpreting Services

Dutta, Pallabi
Senior Office Assistant
Entrepreneurial Programs

Dvorak, Christopher
Facilities Equipment Attendant
Athletics

Elbe, Susan
Student Services Assistant
Office of Financial Aid

Elizondo, Patricia
Staff Interpreter I
Interpreting Services

Espinoza, Richard
Custodian
Facilities

Evers, Linda
Science Lab Coordinator
Division of Science, Technology, and Engineering

Feltrop, Bonnie
Executive Assistant
Division of Fine Arts, Business, and Communication Studies

Ferea, Larry
Lead Gardener/Groundskeeper
Facilities

Fernandes, Linda
Registration Coordinator
Office of Admissions and Records

Ferrantino-Belkin, Rachel
Office Assistant
Office of Admissions and Records

Fokken, Hartmut
Computer Lab Technician II
Information Technology

Fon, Frances
Transfer Center Specialist
Counseling Department

Fontanilla, Mary
Instructional Assistant-Writing Lab
Division of Humanities, Social Sciences, and Mathematics

Foster, Shelby
Executive Assistant
President's Office

Fresquez, Adam
Theater Operations Technician
Division of Fine Arts, Business, and Communication Studies

Gabriel, Jamilah
Lead Library Technician/Circulation
Division of Learning Resources and Academic Technology

Gallegos, Willie
Custodian/Pool Maintenance
Facilities

Garcia, Antonio
Custodian
Facilities

Garcia, Lidia
Bookstore Textbook Coordinator
Ohlone College Bookstore

Garza, Diana
Executive Assistant to the Associate Vice President
Newark Center for Health Sciences and Technology

Glyczy, Gosia
Marketing Lead
College Advancement

Gomez, Juan
Gardener/Groundskeeper II
Facilities
DISTRICT PERSONNEL

Mumin, Harold
Building Trades/Maintenance Plumber
Facilities

Mundy, Reginald
Safety Officer I
Campus Police

Murphy, Gweneth
Security Officer II
Campus Police

Nacu, Roman
Custodian
Facilities

Ng, Kwok-Fai
Custodian
Facilities

Nguyen, Quan
Computer Lab Coordinator
Information Technology

Nguyen, Thao
Student Services Assistant
Office of Financial Aid

Nguyen, Tuongvan
Lab Technician/Chemistry
Division of Science, Technology, and Engineering

Nordquist, Kurt
Skilled Maintenance Mechanic (HVAC)
Facilities

Ochoa, Raul
Painter
Facilities

Olla, JoyDawn
Special Programs Assistant
Disabled Students Programs and Services

Ong, Eileen
Staff Captioner I
Interpreting Services

Orr, William
Lead Custodian
Facilities

Ortega, Rebeca
Library Assistant
Division of Learning Resources and Academic Technology

Ortt, Robert
Evaluation Specialist
Office of Admissions and Records

Outing, Charles
Desktop Support II
Information Technology

Owen, Sue
Executive Assistant/Interpreter
Division of Deaf Studies

Panales, David
Bookstore Operations Coordinator
Ohlone College Bookstore

Parker, Jennifer
Executive Assistant
Facilities

Payne, Donna
Accountant
Ohlone College Foundation

Peralta, Benedick
Public Safety Officer
Campus Police

Perez, Cynthia
Staff Interpreter II
Interpreting Services

Pinarcik, Alex
Warehousekeeper
Business Services

Pintello, Stephanie
Staff Interpreter II
Interpreting Services

Polk, Julie
Educational Services Support II
Scheduling Office

Quijas, Janet
Executive Assistant
Student Health Center

Richard, Josephina
Custodian
Facilities

Rodgers, April
Staff Interpreter II
Interpreting Services

Rollins, Delphyne
Desktop Support Technician II
Information Technology

Schoen, Shadia
Job Developer
One-Stop Career Center

Schoenecker, Kathleen
Instructional Assistant
Disabled Students Programs and Services

Schurtz, David
Automotive Service Technician
Facilities

Serran, JoAnne
Executive Assistant
Division of Health Sciences and Environmental Studies

Sharma, Jaya
Student Services Assistant
Office of Admissions and Records; Counseling Department

Silva, Michael
Security Officer II
Campus Police

Smith, Antonia
Executive Assistant
One-Stop Career Center

Steffen, Susan
Executive Assistant
Counseling Department

Ta, Dangto
Instructional Assistant, Math Lab
Division of Humanities, Social Sciences, and Mathematics

Triplett, Mike
Customer Support Coordinator
Information Technology

Villicana, Connie
Custodian
Facilities

Washington, Spencer
Student Services Assistant
Office of Financial Aid

Whitehouse, Jacquelyn
Music Library Technician/Graphics
Division of Fine Arts, Business, and Communication Studies

Wilson-Gonzalez, Georgina
Biotech Lab Technician
Division of Science, Technology, and Engineering

Witmer, Lea
Accounting Technician III
Business Services

Wood, David
Instructional Assistant, English
Division of Humanities, Social Sciences, and Mathematics

Wright, Andrea
Student Services Assistant
Office of Financial Aid

Zale, Zouri
Desktop Support Tech II
Information Technology

Zeng, Yanni
Student Services Assistant
One-Stop Career Center

Zhu, Bonnie
Accountant
Payroll

Zimmerman, Phillip
Electrician
Facilities
Fremont Campus

General Information .............................................. (510) 659-6000
Admissions and Records ........................................ (510) 659-6100
Athletics and Exercise Science Division Office ............... (510) 659-6044
Bookstore .............................................................. (510) 659-6061
Campus Activities .................................................. (510) 659-6255
Campus Police/Security .......................................... (510) 659-6111
Cashier's Office ...................................................... (510) 659-6073
Center for Deaf Studies .......................................... (510) 659-6269 V/TTY
Counseling ............................................................... (510) 659-6110
Counseling Division Office ....................................... (510) 659-6037
Counseling for Deaf and Hard of Hearing ....................... (510) 659-7326 TTY/VP
Learning Disabled Students ......................................... (510) 659-6079
Library ................................................................. (510) 659-6160
Ohlone Foundation .................................................. (510) 659-6020
Placement Testing Center .......................................... (510) 659-6126
Science, Technology, and Engineering Division Office ... (510) 659-6191
Student Health Center .............................................. (510) 659-6258
Student Success Center ............................................ (510) 979-7555
Theatre and Dance ................................................. (510) 659-6170
Tutoring Services .................................................... (510) 659-6172
Veterans' Services .................................................. (510) 659-6199
Work Experience Education ........................................ (510) 659-6155 ext. 5128

Newark Campus

General Information ................................................ (510) 742-2300
Admissions and Records .......................................... (510) 742-2340
Campus Police/Security ........................................... (510) 742-2311
Community Education ............................................. (510) 742-2303
Counseling .............................................................. (510) 742-2340
Financial Aid .......................................................... (510) 742-2340
Health Sciences and Environmental Studies Division Office ... (510) 742-3100
Learning Resources Center ....................................... (510) 742-3127
Newark Center for Health Sciences and Technology Office ... (510) 742-2302
Ohlone for Kids ...................................................... (510) 742-2304
One-Stop Career Center ............................................ (510) 742-2323
Student Services ..................................................... (510) 742-2340
**Academic Calendar:** A calendar of important dates for each term, including add and drop deadlines. The Academic Calendar is available in the Catalog, each term’s Class Schedule, and the Admissions and Records Web page.

**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 term – 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.

**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.

**Certificate of Accomplishment:** Indicates completion of a specific occupational program of study and training of less than 18 units, usually in one year.

**Certificate of Achievement:** Indicates completion of a focused occupational program of study and training of 18 or more units.

**Class Load:** The number of units a student takes in any given term. A full-time class load is twelve or more units during Fall and Spring Semesters and six units during Summer Term. 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.

**Audit:** An enrollment status in a class where no units or grades are awarded.

**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.
**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 chapter 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.

**DSPS:** Disabled Students Programs and Services. DSPS is designed to open doors to educational and occupational opportunities for students with physical or medical disabilities.

**Elective:** Any course not required for a major field or general education requirements.

**ELI:** English Language Institute. A program for students who wish to study English full-time.

**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.

**FERPA:** Family Educational Rights and Privacy Act of 1974. Federal regulation which protects the privacy of a student’s academic records.

**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. Pass (P), No Pass (NP), 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. 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 52).

**Learning Community:** A group of 2-5 classes linked together with a common theme and a common group of students.

**Major:** Area or field of concentration for occupational certificate or associate degree.

**Matriculation:** A process that brings a college and a student who enrolls for credit to agreement for the purpose of realizing the student’s educational objective. On the college’s part, the agreement includes providing an admission process; an orientation to college programs, services, and procedures; pre-enrollment placement and counseling for course selection; a suitable curriculum; continuous follow up of student progress; and a program of institutional research and evaluation.

**Non-resident:** A person who has not lived continuously in California for one full year and a day prior to enrollment and therefore does not meet residency requirements.

**Orientation:** A program for new students to learn about the programs and services available to Ohlone students.

**Part time student:** Any student enrolled for less than twelve units of coursework in a Fall or Spring Semester.

**Peer Mentors:** Ohlone students who help in recruiting and College relations.
**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 completed 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 semester units to quarter units, multiply by 3/2. To convert quarter units to semester units, multiply by 2/3.

**Registration**: The process of signing up for classes each term.

**Resident**: A person who has resided in California for one full year and a day prior to enrollment and who meets other residency requirements.

**Semester**: A subdivision of the academic year into two sessions, usually fall and spring, each lasting approximately sixteen weeks. To convert semester units to quarter units, multiply by 3/2. To convert quarter units to semester units, multiply by 2/3.

**Skills Prerequisite**: A recommended condition for enrollment in a course or major. Skills prerequisites usually consist of a previous reading, writing, mathematics, or critical thinking course, or placement score that indicates(s) a chance for successful achievement by the student enrolling in the course.

**Special Student**: A K-12 student who attends Ohlone before graduating from high school.

**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 Ohlone 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.

**Waitlisting**: A process where students can “wait in line” electronically for a full class.

**WebAdvisor**: Web registration system for students to add and drop classes, pay fees, and check grades.

**Work Experience Education**: A program of college credit for work experience combined with college study.

**Work Study**: A program of federal aid that provides funds for student jobs on campus.
INDEX

Academic Calendar ................................................................. 5
Academic Complaint............................................................. 249
Academic Dishonesty and its Consequences ...................... 249
Academic Division Information ............................................... 116
Academic Freedom ................................................................. 247
Academic Probation ................................................................. 37
Academic Programs ................................................................. 56
Academic Progress - Student Responsibilities .................... 43
Academic Regulations ............................................................... 37
Academic Renewal ................................................................. 38
Academic Standing ................................................................. 37
Accounting (BA, See Business Administration) Courses ...... 147
Admissions and Records ....................................................... 24
Advancement Placement (AP) Credit .................................... 42
Advisory Committees ............................................................... 110
Advisory Courses .................................................................. 115
Air Force (AF) Courses ........................................................... 126
Alcohol and Drug Abuse Policies ......................................... 251
Allied Health (AH) Courses .................................................. 127
American Sign Language (ASL) Courses ......................... 128
Anthropology (ANTH) Courses ........................................... 130
Application for Admission .................................................... 15
Arabic (ARBC) Courses .......................................................... 131
Art (ART) Courses ................................................................. 131
Associate Degrees: Multidisciplinary Majors ....................... 46
Associate Degrees: Majors for Transfer ......................... 46
Associate of Arts/Science Degree ......................................... 46
Astronomy (ASTR) Courses ................................................. 157
Athletics ................................................................................. 26
Athletics (ATHL) Courses ...................................................... 138
Attendance ............................................................................ 43
Auditing ................................................................................. 40
Authority for Law Enforcement ......................................... 252
Basic Skills Classes ............................................................... 41
Biological (BIO) Courses ..................................................... 140
Biotechnology (BIOT) Courses ............................................ 142
Board of Trustees ................................................................. 13
Bookstore .............................................................................. 26
Broadcasting (BRDC) Courses ............................................ 145
Business Administration (BA) Courses ......................... 147
Business Supervision/Management (BSM) Courses ....... 150
Cafeteria and Vending Services .......................................... 26
CalWORKs Program ............................................................... 30
Campus Activities ............................................................... 26
Campus Police/Safety and Security Services ................. 27
CARE Program ............................................................... 29
Career Services ............................................................... 28
Carnegie Unit ................................................................. 40
Catalog Rights Policy ............................................................. 43
Certificate of Accomplishment ........................................... 50
Certificate of Achievement .................................................. 50
Chemical Technology (CHMT) Courses ......................... 151
Chemistry (CHEM) Courses ................................................. 152
Chicanos Studies (CHS) Courses ....................................... 153
Chinese (CHIN) Courses ..................................................... 154
Civil Rights Complaints ....................................................... 250
Class Schedule ................................................................. 20
Classifications, Student ....................................................... 39
Classified Staff ................................................................. 260
Clear Standing ................................................................. 37
Clubs and Organizations ..................................................... 27
College Personnel ............................................................... 254
Communication (COMM) Courses ................................... 154
Community College System ................................................. 9
Community Education .......................................................... 12
Complaint Process ............................................................... 251
Complaints .......................................................................... 249
Academic .......................................................................... 249
Civil Rights ...................................................................... 250
General Student ............................................................... 250
Section 504/ADA .............................................................. 250
Sex Discrimination .............................................................. 250
Sexual Harassment .............................................................. 250
Title IX .............................................................................. 250
Computers, Networks, and Emerging Technology (CNET) Courses .................................................. 154
Conversion of Quarter Units ............................................. 40
Conversion from Quarter Units ........................................... 40
Co-Curricular Activities ....................................................... 27
Cooperative Admissions Programs ..................................... 15
Cooperative Agencies Resources for Education (CARE) Program .................................................. 29
Corequisite Courses ............................................................. 115
Counseling Department ....................................................... 28
Course Descriptions ............................................................ 125
Course Grading Policy .......................................................... 116
Credit by Examination ......................................................... 41
Credit for Military and Non-college Courses/Training ... 41
Cross-Registration (CSUEB) ............................................ 21, 52
Curriculum Guides .............................................................. 58
Deaf Center .......................................................................... 11
Deaf (DEAF) Courses ......................................................... 169
Deaf Preparatory Program (DEAF) Courses ............... 169
2009-2010 OHONE COLLEGE CATALOG
INDEX

KOHL Radio ..........................................................11
Learning Resources Center/Library .......................10
Learning Skills Program (LSP) Courses ...................198
Library Science (LS) Courses .................................198
Load Limit ..........................................................39
Loans ......................................................................30
Lower Division Transfer Project (LDTP) ....................52
Management District ..............................................235
Map ____________________________________________Inside Back Cover
Mathematics (MATH) Courses ................................199
Matriculation ........................................................14
Mental Health Counseling .......................................32
Military Credit ......................................................41
Mission of Ohlone ................................................6
Mission Statement ...............................................6
Morris and Alvilda Hyman Center for Business and Technology .10
Multi-Departmental Courses .................................116
Multimedia (MM) Courses ....................................201
Music (MUS) Courses ..........................................205
New Student Orientation ......................................20
Newark Campus ....................................................10
Newark Center for Health Sciences and Technology ...10
Nursing (NUR) Courses .......................................210
Occupational Majors ............................................46
Ohlone Campuses ...............................................10
Ohlone College Center for Deaf Studies ..................11
Ohlone College/Diablo Valley College Cooperative Program in Respiratory Therapy ........15
Ohlone College Foundation ..................................13
Ohlone Community College District .....................13
Ohlone Network Television (ONTV) .......................11
One-Stop Career Center .......................................12
Online Registration Access Fee ..............................34
Open Enrollment Policy .......................................14
Orientation .........................................................20
Overload Guidelines ............................................30
Parent/Guardian Information .................................43
Parking Policies ..................................................28, 253
Pass/No Pass ......................................................39
Payment Options ................................................36
Peer Mentors .......................................................26
Personal Development (PD) Courses .....................212
Personal Counseling ...........................................32
Personnel .........................................................254
Philosophy (PHIL) Courses ................................214
Physical Education (PE) Courses ..........................215
Physical Science (PHS) Courses .........................225
Physical Therapist Assistant (PTA) Courses ..........225
Physics (PHYS) Courses ....................................227
Placement Testing ...............................................19
Policies and Procedures .......................................247
Political Science (PS) Courses ............................228
Prerequisite Courses ...........................................115
Prerequisites Taken at Another College or University ...20
Probation ..........................................................32
Academic .........................................................37
Progress ..........................................................37
Programs Requiring Special Admission ................15
Progress Probation .............................................37
Psychology (PSY) Courses ................................229
Radio Station KOHL ..........................................11
Real Estate (RE) Courses ....................................230
Reciprocity with Community Colleges ....................49
Re-entry Adults, Services for ...............................28
Refunds Registration Information ........................20-21, 23
Reinstatement .....................................................38
Release of Student Information .............................43
Repetition of Courses ...........................................40
Requisite Courses ...............................................115
Residency Information ........................................15
Respiratory Therapist (RT) Courses .....................231
Respiratory Therapy Program ................................15
Revision of Regulations .........................................13
Scholarships ......................................................31
Section 504/ADA Complaint ....................................250
Selected Topics Courses .......................................116
Semester System ................................................40
Sex Discrimination and Sexual Harassment .............250
Smith Center .....................................................11
Smoking Policy ....................................................251
Sociology (SOC) Courses .....................................234
Spanish (SPAN) Courses .....................................234
Special Projects Courses ....................................116
Special Services ................................................29
Special Student Admission (K-12 Students) ..............16
Speech and Communication Studies (SPCH) Courses ...235
Standards of Student Conduct and Discipline ..........251
Student Access to Records ....................................249
Student Activity Fee/Student ID Card .....................34
Student Government ..........................................26
Student Health Center .........................................32
Student ID Card ..................................................34
Student Learning Outcomes .................................118
Student Load/Overload Guidelines .........................59
Student Responsibilities ......................................43
Student Right-to-Know ........................................252
Student Services ................................................24
Student Services Center ......................................9
Students, Classification .......................................39
Study Abroad Program .......................................12
Subject to Dismissal ............................................37
Academic .........................................................37
Progress ..........................................................37
Tagalog (TAG) Courses .......................................237
Theatre and Dance (TD) Courses .........................237
Title IX Policy ....................................................250
Tours ....................................................................12
Transcripts ........................................................15
Transfer Admission Guarantees (TAG) ....................52
Transfer Center ..................................................32
Transfer Credit ...................................................44
Transfer Planning ................................................32
Transfer Programs ..............................................52
Transfer to Four Year Institutions .........................50
California State Universities ................................51
University of California ....................................51
Private and Out-of-State Colleges and Universities ....51
Tri-Cities One-Stop Career Center .........................12
Tutoring Services ...............................................33
Unit of Credit Definitions ......................................40
Unpaid Financial Obligations .................................36
Veterans’ Educational Benefits ..............................33
Vision, Values, and Goals .....................................6
Wellbeing ..........................................................20
WebAdvisor ........................................................21
Welcome to Ohlone .............................................7
Withdrawal from Classes .....................................21
Women’s Studies (WS) Courses ............................245
Work Experience Education (WEX) Courses ..........245

Directory Information ........................................43
Disabled Students Programs and Services ................29
Disciplinary Action .............................................252
Dismissal from Class or College ............................38
Academic ........................................................38
Disciplinary .......................................................38
Progress ..........................................................38
Dropping Classes ...............................................21
Due Process Procedures .......................................251
Early Childhood Studies (ECS) Courses .................173
Education (EDUC) Courses ................................177
Emeritus Personnel ..............................................255
Engineering (ENGI) Courses ................................177
Engineering Technology (ETEC) Courses ..............178
English (ENGL) Courses .....................................178
English as a Second Language (ESL) Courses .........182
English as a Second Language Placement Testing .......19
English Language Institute ...................................16
Enrollment Fee ...................................................34
Enrollment Process .............................................17
Environmental Studies (ENVS) Courses .................183
Equal Educational and Employment Opportunity Policy ...248
Extended Opportunity Programs and Services (EOPS) ....29
Faculty, Full-Time ..............................................257
Family Educational Rights and Privacy Act (FERPA) ...43
Fees, Student .......................................................34
Final Examinations ..............................................43
Financial Aid .......................................................30
Foundation, Ohlone College ................................13
French (FREN) Courses .......................................184
Gallaudet University Regional Center ....................12
Gary Soren Smith Center for the Fine and Performing Arts ......11
General Education Areas ....................................47
General Education Options for Transfer .................49
General Education Plan A (Ohlone GE) ....................47, 53
General Education Plan B (CSU GE) .......................49, 54
General Education Plan C (IGETC) .........................49, 55
General Education Philosophy ................................46
Geography (GEOG) Courses ...............................185
Geology (GEOI) Courses .....................................186
Glossary ..........................................................264
Goals of the College ..........................................6
Grade Point Average ..........................................39
Grades .............................................................39
Grading System ..................................................39, 116
Graduation ........................................................46
Grants ..............................................................30
Graphic Arts (GA) Courses .................................186
Health Courses (HLTH) .......................................188
Health Services Fee ............................................34
History (HIST) Courses .......................................188
History of Ohlone ...............................................10
Honors .............................................................37
Housing ............................................................26
Hyman Hall ........................................................11
IGETC .........................................................49, 52, 55
Incomplete Grades ..............................................40
Instructional Materials Fees ..................................36
Interdisciplinary Studies (IS) Courses .....................190
Interior Design (ID) Courses ................................190
International Programs and Services ....................50
International Student Admission ...........................15-16
Interpreter Training (INT) Courses .......................192
Intersegmental General Education Transfer Program (IGETC) ......49, 52, 55
Japanese (JPNS) Courses .....................................195
Journalism (JOUR) Courses ................................195
K-12 Admission ................................................16
K-12 Parent/Guardian Information .........................43
Kinesiology (KIN) Courses ..................................197

2009-2010 OHLONE COLLEGE CATALOG