Ohlone’s Board of Trustees is pictured with the family (center) of Mr. Felipe Galvan. Mr. Galvan was a descendant and Elder of the Ohlone People and passed away on March 25, 2013. Mr. Galvan was a man respected and admired for his work in preserving the memory, the heritage, and the dignity of the ancestral Ohlone people through his efforts in the community, his life, and his daily example. Mr. Galvan suggested the name Ohlone to the founders of the College in 1967 as a fitting and appropriate name, thus giving the College a proud heritage and tradition which has endured among faculty, staff, students, and administration since the opening of the College over 40 years ago. The Board recognizes Mr. Felipe Galvan’s commitment to preserving the heritage of the Ohlone People and honors his memory.

### Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Calendar</td>
<td>5</td>
</tr>
<tr>
<td>Vision, Mission, Values, and Goals</td>
<td>6</td>
</tr>
<tr>
<td>Chapter One — Welcome to Ohlone</td>
<td>7</td>
</tr>
<tr>
<td>Good News about Ohlone!</td>
<td>7</td>
</tr>
<tr>
<td>Accreditation</td>
<td>10</td>
</tr>
<tr>
<td>The Community College System</td>
<td>10</td>
</tr>
<tr>
<td>Important Facts about Ohlone</td>
<td>10</td>
</tr>
<tr>
<td>History of Ohlone</td>
<td>11</td>
</tr>
<tr>
<td>The Ohlone Campuses</td>
<td>11</td>
</tr>
<tr>
<td>Ohlone Community College District Board of Trustees</td>
<td>14</td>
</tr>
<tr>
<td>Ohlone College Foundation</td>
<td>14</td>
</tr>
<tr>
<td>Revision of Regulations</td>
<td>14</td>
</tr>
<tr>
<td>Chapter Two – Admission and Registration</td>
<td></td>
</tr>
<tr>
<td>Admission Information</td>
<td>15</td>
</tr>
<tr>
<td>Open Enrollment Policy</td>
<td>15</td>
</tr>
<tr>
<td>Matriculation</td>
<td>15</td>
</tr>
<tr>
<td>Application for Admission</td>
<td>16</td>
</tr>
<tr>
<td>The Enrollment Process</td>
<td>18</td>
</tr>
<tr>
<td>Placement Testing</td>
<td>20</td>
</tr>
<tr>
<td>New Student Orientation</td>
<td>21</td>
</tr>
<tr>
<td>Registration Information</td>
<td>22</td>
</tr>
<tr>
<td>WebAdvisor</td>
<td>23</td>
</tr>
<tr>
<td>Chapter Three – Services for Students</td>
<td></td>
</tr>
<tr>
<td>Admissions and Records</td>
<td>26</td>
</tr>
<tr>
<td>Student Services Curriculum</td>
<td>27</td>
</tr>
<tr>
<td>Athletics</td>
<td>28</td>
</tr>
<tr>
<td>Basic Skills Program</td>
<td>28</td>
</tr>
<tr>
<td>Bookstore</td>
<td>28</td>
</tr>
<tr>
<td>Campus Police/Safety and Security Services</td>
<td>28</td>
</tr>
<tr>
<td>Counseling Department</td>
<td>29</td>
</tr>
<tr>
<td>Disabled Students Programs and Services (DSPS)</td>
<td>30</td>
</tr>
<tr>
<td>Extended Opportunity Programs and Services (EOPS)</td>
<td>30</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>31</td>
</tr>
</tbody>
</table>

Dancers entertain at Raza Day.
TABLE OF CONTENTS

International Programs and Services 31
Ombudsperson 33
Student Health Center 33
Student Life 33
Transfer Center 34
Tri-Cities One-Stop Career Center 35
Tutoring Services 35
Veterans’ Educational Benefits 35

Chapter Four — Fees and Refunds
Fees 36
2013-2014 Fees 37
Payment 38
Refunds 38

Chapter Five — Academic Regulations
Academic Standing 39
Student Classifications 41
Student Load/Overload Guidelines 41
Grades 41
Repetition of Courses 43
Unit of Credit Definitions 43
Credit by Examination 44
Basic Skills Classes 44
Final Examinations 44
Catalog Rights Policy 45

Chapter Six — Degree, Certificate, and Transfer Information
Transfer Credit from Another Institution 46
Steps in Choosing Your Ohlone College Academic Program 47
Associate in Arts and Associate in Science Degrees 48
Transfer Associate Degrees 48
Associate Degree: Graduation Information 49
General Education 49
Certificate Programs 52
University Transfer 52
Intersegmental General Education Transfer Curriculum (IGETC) 54
Transfer Programs 54
General Education: Ohlone College (Plan A) 55
General Education: California State University (Plan B) 56

Chapter Seven — Curriculum Guides
Associate Degrees and Certificates of Achievement 60
Certificates of Accomplishment 102

Chapter Eight — Advisory Committees 123

Chapter Nine — Announcement of Courses
How to Read Course Descriptions 129
Course Requisites 129
Course Identification Numbering System (C-ID) 130
Accepted for Credit 130
Course Grading Policy 130
Multi-Departmental Courses 130
Public Safety Courses 131
Academic Division Information 131
Course Listings 132
Chapter Ten – Policies and Procedures

Academic Freedom .................................. 237
Equal Educational and Employment Opportunity ............... 238
Policies and Procedures, Student Life .................................... 239
Student Access to Records ............................................. 239
Academic Dishonesty and Its Consequences ......................... 239
Complaint Procedures .................................................. 239
Unlawful Discrimination and Unlawful Harassment ............... 240

Drug Free Environment and Drug Prevention Program ............ 241
Smoke-Free District ..................................................... 241
Standards of Student Conduct and Discipline and Due Process Procedures . 242
Student Right-to-Know ................................................ 243
Jeanne Clery Act ....................................................... 243
Authority for Law Enforcement ...................................... 244

Chapter Eleven – District Personnel

Administration ................................................. 247
Management ....................................................... 247

Confidants ...................................................... 247
Board of Trustees ............................................... 247
Emeritus Ohlone College Personnel ...................... 247
Full-Time Faculty ............................................... 249
Classified Staff .................................................. 252
District Directory ............................................. 255

Glossary ......................................................... 256
Index ............................................................. 259
District Map ...................................................... Inside Back Cover

Ohlone 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.

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

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

The Ohlone Community College District has made every reasonable effort to determine that all information stated in this catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the Ohlone Community College District for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District. The District further reserves the right to add, amend, or repeal any of its rules, regulations, policies, and procedures. Students are expected to be familiar with the information in the Catalog, Class Schedule, and other publications relating to student attendance and conduct.
ACADEMIC CALENDAR 2013-2014

Fall Semester 2013

August 26  Fall Semester instruction begins
August 30*  Last day to add full-term class without instructor’s signature
August 31-September 2  Holiday – Labor Day (weekend classes do not meet)
September 3  Last day to drop full-term class and be eligible for a refund
September 6  Last day to add full-term class with instructor’s signature
September 6  Last day to drop full-term class in person without a W grade
September 6  Last day to submit petition to audit full-term class
September 8  Last day to drop full-term class online without a W grade
September 9  Census
September 20  Last day to petition to complete class on a pass/no pass basis
October 4  Last day to apply for Fall 2013 graduation for degrees or certificates
November 11  Holiday – Veterans’ Day
November 14  Last day to drop full-term class with a W grade
November 28-December 1  Holiday – Thanksgiving (weekend classes do not meet)
December 6  Last day of instruction
December 7-13  Final exam period
December 14-January 26  Semester Break

*Students cannot add full-term classes online via WebAdvisor (https://webadvisor.ohlone.edu) after the last day to add without the instructor’s signature. After Friday, August 30 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 2014

January 20  Holiday – Martin Luther King Jr. Day
January 27  Spring Semester instruction begins
January 31*  Last day to add full-term class without instructor’s signature
February 4  Last day to drop full-term class and be eligible for a refund
February 7  Last day to add full-term class with instructor’s signature
February 7  Last day to drop full-term class in person without a W grade
February 7  Last day to submit petition to audit full-term class
February 9  Last day to drop full-term class online without a W grade
February 10  Census
February 13  Last day to apply for Spring 2014 graduation for degrees or certificates
February 14-17  Holiday – Presidents’ Weekend (weekend classes do not meet)
February 21  Last day to petition to complete class on a pass/no pass basis
March 24-30  Spring Break
April 25  Last day to drop full-term class with a W grade
May 16  Last day of instruction
May 17-23  Final exam period
May 23  Commencement
May 26  Holiday – Memorial Day

*Students cannot add full-term classes online via WebAdvisor (https://webadvisor.ohlone.edu) after the last day to add without the instructor’s signature. After January 31 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 2014

June 16  Summer Term instruction begins
June 23  Census
July 3  Holiday – Independence Day
July 24  Summer Term 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 (http://www.ohlone.edu/org/admissions/academiccalendar.html) for dates for the specific term.
VISION, MISSION, VALUES, AND GOALS  
2010-2015

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 under-served 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. Through innovative programs and services, improve student learning and achievement.
2. Support the economic vitality of the community through educational programs and services that respond to identified employment needs.
3. Promote continuous, needs-based learning and professional development opportunities for all District personnel.
4. Use human, fiscal, technological, and physical resources responsibly, effectively, and efficiently to maximize student learning and achievement.
5. Lead and educate the community in environmental sustainability.
6. Enhance college-wide interaction with, and acceptance of, diverse peoples, cultures, arts, and perspectives.
7. Increase access to higher education of under-served and under-represented demographic groups in the District and local communities.
8. Engage all members of the college community in active, continual institutional improvement.

Adopted by the Board of Trustees 6/10/09
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

The Beta Tau Mu Chapter of Phi Theta Kappa Honor Society at Ohlone College received special commendation during the 2012 regional convention for fulfilling all requirements to be named a “One Star Chapter.” Criteria for this award include student engagement and achieving goals set by the chapter.

Ohlone College Ceramics students exhibited their work in the California Conference of the Advancement of Ceramic Art in Davis, California in Spring 2012. Ohlone was one of 37 colleges and universities to participate in this well established conference, with estimated attendance of 2,000-3,000.

The College Connection Class of 2012 completed a successful year. These high school graduates have big plans—thirteen of them are coming to Ohlone, five are going to a CSU, three are going to a UC, one is joining the armed services, and one is undecided between Ohlone and an out-of-state college.

The Engineering Club received a $500 donation from LAM Research to repair and upgrade the club’s robot. The robot is used to inspire high school and middle school students to pursue careers in STEM (science, technology, engineering, and math). The building and maintaining of the robot is excellent practice for Ohlone’s engineering students.

Journalism students from The Monitor, Ohlone’s student-run newspaper, attended the Journalism Association of Community Colleges (JACC) conference in September 2012. The students won a meritorious award for enterprise reporting in addition to awards in copy editing, news writing, opinion writing, sports game story, editorial cartoon, and feature photo.

The Monitor, Ohlone’s student-run newspaper, brought home seven awards from the statewide Journalism Association of Community Colleges (JACC) convention in Sacramento April 11-13, 2013. More than 500 students from 41 colleges attended the statewide event. Six students from the Monitor’s staff attended the convention—one of the smallest delegations at the event—and yet The Monitor was among the most successful teams. The group was especially excited about receiving the General Excellence for Online Journalism award for The Monitor’s Web site, www.ohlonemonitor.com. The student newspaper staff awards include ones earned by Frankie Addiego, third place for On-the-Spot Editorial Cartoon; Manika Casterline, Honorable Mention for On-the-Spot News Story; and Celia Freire and Joshua Mobley, Honorable Mention for Bring-In Advertisement design. Other winners included Hannah Walrod, second place, Publication Advertisement design; Heather Hegeman, second place, News Photo; and Marra-Marie Magsakay, fourth place for Inside Page Design.

(continued on next page)
Did you know?

Ohlone has the fourth highest transfer rate of all Bay Area community colleges.
Ohlone has been recognized as one of two community colleges in California to be a partner in a National Science Foundation (NSF) grant program awarded to the Rochester Institute of Technology and its National Training Institute for the Deaf. The project is titled “DeaTEC: Technological Education Center for Deaf and Hard-of-Hearing Students.” A major goal of the NSF project is to successfully integrate more Deaf and Hard of Hearing individuals into the workplace in highly skilled STEM technician jobs in which these individuals are currently under-represented and underutilized.

From August through September 2012 Ohlone’s Human Resources and Contract Education Departments collaborated to offer Ohlone employees the opportunity to participate in a six-week American Sign Language (ASL) course. 24 Ohlone employees participated in the course. The reviews received were wonderful as employees spoke about learning basic ASL and described how they are now incorporating this knowledge into their daily work and interaction around the college. Many of the same employees subsequently participated in a second level ASL course in order to increase their knowledge of ASL.

Ohlone’s Respiratory Therapist program was recognized by the Commission on Accreditation for Respiratory Care (CoARC) for receiving the Distinguished RRT Credentialing Success Award. The CoARC considers the RRT credential a measure of a program’s success in inspiring its graduates to achieve their highest educational and professional aspirations. Ohlone’s RT program received a certification of recognition during the CoArc reception in July 2012.

On August 1, 2012, a month ahead of the projected “Power On” commencement, Ohlone received word from PG&E that its Fremont solar system was turned on and officially generating power to the local power grid. Ohlone had completed construction of its 1.0 Megawatt energy generating solar farm on July 15, 2012, exactly four months after groundbreaking, and had been waiting since then for PG&E to complete its final inspections/check-list and flip the switch. The $6.7 million Measure G project was completed on time and on budget due in large part to the efforts of Director of Facilities and Modernization, Thomas Moore, and Measure G Project Coordinator Chris Wilson of Gilbane.

The Ohlone Student Health Center, in conjunction with the City of Newark and Alameda County, received a $332,000 mental health grant. The grant brings in staff to support the Student Health Center at no obligation to the College. The focus of the grant is professional development to assist teaching faculty when dealing with student issues.

For the second time in three years Ohlone College has been chosen as a Regional Finalist for the Kennedy Center’s American College Theatre Festival with the production of “Dog Sees God.” Only four productions were chosen from over 100 schools applying. Ohlone students, faculty, and staff performed for hundreds of students and faculty from universities and colleges in nine western states.

With Fall 2012 enrollment Hispanics are no longer an under-represented group at Ohlone. The Hispanic student population is now 19.1% of the student body compared with 18.5% of the District residents. Additionally, African-American students represent 5.4% of Ohlone’s student body compared with 3.6% of the District’s residents being African-American.

In the 2013 ARCC (Accountability Reporting for Community Colleges) report Ohlone ranks in the top 10% of community colleges statewide for rate of transfer and degree completion. Ohlone has the third best rate in the state for students who started a remedial math course and then were successful in transfer level math.

Community Outreach

The Ohlone College Nursing Students participated in a drop-in blood pressure screening service to help seniors live healthier lives. The first screening on August 6, 2012 was successful, with participants lined up out the door. Future screenings will be held at the Newark Senior Center on the first and third Mondays of the month.

On October 23, 2012 the Physical Therapist Assistant and Registered Nursing students participated in the annual Newark Senior Citizen Health Fair. The PTA students assessed blood pressures and evaluated balance and strength for the senior citizens. The RN students gave flu shots and presented information on Alzheimer awareness.

On November 3, 2012 the Respiratory Therapy Students participated in the American Lung Association “Air Walk for Life.” The students assessed participants’ respiratory capacity and walked a 5K route.

These three events are excellent examples of how Ohlone faculty are impressing upon the students the value of community service.

College Events

Over 700 students attended Ohlone’s annual Transfer Day on September 24, 2012 to explore transfer options. Students had the opportunity to talk to representatives from over 45 universities located from Washington, D.C. to California. Approximately 100 students attended the four simultaneous sessions following the information fair. University representatives called Ohlone’s Transfer Day as one of the most welcoming and well-run. A team of 15 Ohlone staff members and over 35 student volunteers made this day fruitful and fun for everyone.

The Tri-Cities One-Stop Career Center hosted its annual Fall Job Fair at the Newark campus on October 19, 2012. Over 450 job seekers participated, including 85 Ohlone College students, 20 former Solyndra employees, and 25 former NUMMI employees. Job seekers were offered a variety of workshops ahead of time in order to prepare “to work the room.” There were 59 employers and 12 community based organizations available to meet with job seekers. Employers commented that the attendees were well-qualified and prepared for the event.

More than 650 high school students traveled from as far as Grass Valley to participate in Ohlone College’s 19th Annual High School Theatre Festival from March 22-23, 2013 on the Ohlone College Fremont campus. The festival attracted high school students from more than 22 schools across California. The annual event is the largest high school theatre festival in northern California. The festival allows students from all over the Bay Area to participate in what the students describe as a “life-changing” performing arts marathon. More than 200 professionals, professors, and theater practitioners come together to make this an unforgettable day for these young thespians and theater technicians. Over 100 awards are given to aspiring high school actors and techs performing in multiple categories including one-acts, musical theater, contemporary and classical plays, original monologues, scenes, improvisation, video, dance, design and the very popular Tech Olympics. (continued on next page)
Over 300 participants took part in Ohlone College’s First Annual World Tai Chi and Qigong Day on April 27, 2013. Practicing at the Ohlone College Newark Campus, community members and Ohlone students participated in what was truly a worldwide celebration. Beginning in New Zealand, students of Tai Chi and Qigong began the practice time zone by time zone in over 60 countries and across six continents. Renowned martial artist Ohlone College instructor Sifu May Chen, the 2010 Tai Chi Master of the Year, spearheaded the World Tai Chi and Qigong Day at Ohlone and coordinated participation with schools of Tai Chi around the south and east Bay Area. The event began with a set of Tai Chi and Qigong warm-up routines led by Sifu May Chen. Over 100 community members and students from Chen’s classes participated. Individuals with varying experience levels, from no experience to martial arts masters, participated in the event at Ohlone.

Some of tomorrow’s brightest multimedia artists and designers displayed their Web designs, computer animations, interactive games, and 3D models at the Ohlone College 12th annual Multimedia Festival on May 16, 2013. Since its debut in 2001 the festival has grown in size and scope as the Ohlone Multimedia Department has attracted students with a broader range of experience and education in media arts. The festival is now a forum for high-caliber works of digital art including 3D renderings, 2D and 3D animation, Web design, and video games.

The 2013 Ohlone for Kids and Teens Summer Enrichment Program is offering nearly 400 classes over five sessions. Ohlone for Kids courses are being offered at the Ohlone College Fremont and Newark campuses and the Newark Memorial High School campus. Although registrations are still being taken, so far nearly 1,000 students have enrolled, taking an average of four classes each. Ohlone is serving students from all over the Bay Area with the majority of the students coming from the local communities. This year some of the new and most popular offerings have already sold out or are near full, including Coding Academy, Introduction to Programming, LEGO Robotics, Creating Computer Games, Ceramics, Designing Portable Off-Grid Systems, and Amazing Anatomy.

The California Community College system of two-year public institutions is composed of 112 colleges statewide organized into 72 districts. During the 2011-2012 academic year the California Community College system enrolled more than 2.42 million students, almost 90,000 students earned an associate degree, and more than 52,000 students earned a certificate. The California Community College System 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 2012-2013 the Ohlone Community College District served six high schools, two continuation high schools, two adult schools, and the Regional Occupational Programs, and over 15,000 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.

**ACCREDITATION**

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

**THE COMMUNITY COLLEGE SYSTEM**

The first community college in the United States, Joliet Junior College in Illinois, was founded in 1901, making 2011 the 110th anniversary of the community college system. According to the American Association of Community Colleges, as of 2013 there were 1132 community colleges in the United States, with 986 of those institutions being publicly controlled. There were 13 million students attending community colleges in the United States in Fall 2011, representing 45% of all undergraduate students in the United States and 45% of all first-time freshmen in the United States. In 2010-2011 community colleges awarded more than 734,000 associate degrees and nearly 429,000 certificates.

**Did you know?**

In the past two years, transfers from Ohlone to private colleges and universities and to out of state colleges and universities have increased over 20%.
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.

The name “Ohlone” was suggested by Mr. Felipe Galvan to the founders of the College in 1967 as a fitting and appropriate name, thus giving the College a proud heritage and tradition which has endured among faculty, staff, students, and administration since the opening of the College over 40 years ago. Mr. Felipe Galvan was a descendant and an Elder of the Ohlone People who once inhabited not only the area where Ohlone College is now located, but also lived and thrived throughout the San Francisco Bay Area for thousands of years. Mr. Galvan was a man respected and admired for his work in preserving the memory, the heritage, and the dignity of the ancestral Ohlone people through his efforts in the community, his life, and his daily example.

Offically named Ohlone College on June 18, 1967, the institution honors the early Ohlone Indians of the Costanoan tribe, who inhabited the Fremont and Newark area. Long before the local Indians were named Costanoans by the Spanish priests, they were known by a neighboring Miwuk tribe as the Oholones 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.

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 Jose, was selected as the permanent campus site. The 2011-2012 academic year marked Ohlone’s 45th anniversary of serving the Tri-cities community with higher education opportunities.

In January 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 the goals of being more environmentally aware in its building and its practices and celebrating and promoting cultural diversity.

THE OHLONE CAMPUS

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.

Newark Campus

The Newark Center for Health Sciences and Technology (NCHST) opened in January 2008. Awarded LEED Platinum Certification from the U.S. Green Building Council, the highest achievable level of sustainability, the campus serves as a model for other colleges to follow. It is a campus that teaches responsibility, sustainable resource management both by example and by intentions. The campus design is tailored to meet the academic and service needs of students on campus, with circulation routes in and around the building to promote student interaction and ease of access. The building has four wings that come together at a central hub. This feature creates a Campus Commons area with access to the café, computer kiosks, individual and group study areas, and wireless access. The latest educational technology features and ergonomic furniture are found throughout the colorful learning environments. The NCHST offers degree and certificate programs in health sciences, biotechnology, and environmental studies. A variety of courses to meet general education requirements are also offered.

Learning Resource Center (LRC)

The Learning Resource Center (LRC) has two locations, one on each campus. The Fremont LRC is located on the third and fourth floors of Building 1; the Newark LRC is located on the first floor of wing 1 in Room NC1124. The LRCs 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 LRCs many electronic resources, including electronic books and periodicals, through the LRCs Web page 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.
**Hochler Student Center**

The Hochler Student Center in Building 5 on the Fremont campus houses the Ohlone College Bookstore; 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 can be seen on the hills above Fremont from as far away as the San Mateo Bridge. The Gary Soren Smith Center for the Fine and Performing Arts boasts state-of-the-art facilities in the areas of radio and television production and broadcast, a dance studio, stages for theatre productions and music performance, as well as a professional art gallery.

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

The Gary Soren Smith Center for the Fine and Performing Arts is the largest performing arts theatre in the southern end of the East Bay. Each season Smith Center Presents! offers professional artist performances; a children’s theatre series; Louie-Meager Art Gallery Exhibits; and the Ohlone Music, Theatre, and Dance Department performances. In addition, it is the primary performance site for the Fremont Symphony Orchestra.

**Ohlone Network Television (ONTV)**

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

**Radio Station KOHL**

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

**Morris and Alvirda Hyman Center for Business and Technology**

The mission of the Morris and Alvirda Hyman Center for Business and Technology 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. Hyman Hall serves to advance economic development in the greater Fremont-Newark region. Hyman Hall’s programs perform three important functions:

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

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

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

**Ohlone College Center for Deaf Studies**

Ohlone College has one of the largest and most comprehensive programs in California designed to meet the academic and vocational needs of Deaf and Hard of Hearing students. The Ohlone Deaf program is unique in that there are both self contained and mainstreamed classes. Students may work toward a certificate, associate degree, or may fulfill requirements needed to transfer to baccalaureate institutions such as Gallaudet University; National Technical Institute for the Deaf/Rochester Institute of Technology; California State University, Northridge; or other universities.

(continued on next page)
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 6, second and third floor on the Fremont campus (www.ohlone.edu/inst/deafstudies/). Registration information and appointments with a counselor may be obtained by calling (510) 344-5700 (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 baccalaureate liberal arts and practical sciences degree. This expansion is in response to the changing needs of society.

The Gallaudet University Regional Center-West at Ohlone College opened in October 1983. The Center serves eight western states including Alaska, California, Idaho, Montana, Nevada, Oregon, Washington, and Wyoming and works in cooperation with Regional and National 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) or (510) 344-5594 (Videophone); by sending a fax to (510) 659-6033; or by sending an e-mail to gurc.ohlone@gallaudet.edu.

Campus Tours

The Ohlone College Peer Mentors are available to conduct tours of the Fremont and Newark campuses. Please refer to the Peer Mentors Web site at http://www.ohlone.edu/rgt/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 on the second floor of Building 7, next to the Office of Admissions and Records. 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. Peer Mentors will conduct tours of the Newark campus upon request. Please e-mail newstudent@ohlone.edu to request a tour of the Newark campus.

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) 742-2303 for information.

Study Abroad Program

For over 20 years the Study Abroad Program has been part of the instructional offerings at Ohlone. Throughout this time, Ohlone has offered students the opportunity to study and travel in a wide variety of countries. The Study Abroad Program has included programs offered by the Art, Business, English, Language Arts, Music, and Theatre and Dance departments. Ohlone students have studied art in Italy; French in Paris; business in Shanghai; attended theatre in London; cruised the Nile River in Egypt; performed in Europe and Asia; and spent semesters abroad in Stratford-upon-Avon, England and Sydney, Australia.

Students may receive 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 kharrison@ohlone.edu. Please also visit the Study Abroad Web site (http://www.ohlone.edu/org/studyabroad) for information on upcoming trips.
OHLONE 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.

OHLONE COLLEGE FOUNDATION

The Ohlone College Foundation exists to broaden educational opportunities for students. One important function is to expand the number of scholarship opportunities available to students. Students can apply for Foundation Scholarships twice a year during Fall and Spring Semesters.

The entire Ohlone community benefits from the Foundation’s support in providing equipment, furnishings, and community awareness programs at both the Fremont and Newark campuses. To develop financial resources for its endeavors, the Foundation conducts a range of activities, including an annual golf tournament, a benefit luncheon honoring local community members, and other fund-raising activities.

The Foundation receives the bulk of its financial support from individual community members, local businesses, and private funding groups and foundations. Donations, endowments, gifts, and other gifts are an important source of funding for the College and its students. Of course, each gift to the College indirectly benefits the entire community as well by increasing opportunities for education.

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 come 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.

Donors may purchase a brick on the “Pathway to Progress” at the Newark campus, participate in the annual Golf Tournament, or attend the spectacular Citizen of the Year benefit luncheon. The newest scholarship program, HOSTS (Helping One Student To Succeed), enables donors to help a student afford college without demanding a large financial commitment from the donor.

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 Ohlone students. To learn more about the Foundation or how to help, please call (510) 659-6020 or visit the Web site at http://www.ohlonefoundation.org/.

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. 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 17.

**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/appforadmission.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:

- Applicants to the Registered Nursing, Physical Therapist Assistant, or Respiratory Therapy Programs;
- Veterans;
- International students;
- Students planning to transfer to a baccalaureate 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 Therapist, 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/instr/healthsciences/ for admission criteria and program options. Prospective students should check the Web site for potential changes in the Registered Nursing, Respiratory Therapy, and Physical Therapist Assistant program admission process.

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

The Respiratory Therapist 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/instr/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 Education Code. 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 defined here as a student who has or wishes to obtain an F-1 Student Visa to study in the United States.

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 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 57 or higher on the Internet-based Test (iBT) or 490 on the Paper-based Test (PBT) is required. International English Language Testing System (IELTS) scores of 5.5 or higher can be accepted in lieu of the TOEFL.*
- Copies of the student’s 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 (ELI). The ELI is a full-time, intensive English language program designed for non-native speakers of English who have or wish to obtain an 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) 659-6439.

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 ATHL 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 that the student take 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 Kindergarten-9th grade 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 Kindergarten-9th students will be accepted after the deadline posted for each term. This deadline is available on the Academic Calendar on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html) and online at http://www.ohlone.edu/org/admissions/k12admission.html. Early application is encouraged. The first day that admitted Kindergarten-9th students will be able to register for classes is the first day of the term.

10th-12th Grade Students

Students in 10th-12th grade are only allowed to register for CSU and UC transferable classes. These courses are identified in the class listings in WebAdvisor (https://webadvisor.ohlone.edu) and 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 colleges or universities; 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 Orientation will assist students with choosing classes and developing a Student Education Plan (SEP).

- **COMPLETE ORIENTATION AND RECEIVE COUNSELING**
- **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). Registration instructions are available on page 25 and online at http://www.ohlone.edu/admissions/howtoregister.html.
  - **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. Students may contact the E-campus at ecampus@ohlone.edu for assistance with online classes or WebCT.

Payment must be received within five days of registration or students may be dropped from classes due to non-payment. For further information please see page 38.
- 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 or the drop box located outside the Cashier’s Office (Building 1, second floor, Fremont campus).
- Pay by cash, check, or credit card at the Cashier’s Office in Building 1, second floor on the Fremont campus.

- **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.
  - Purchase books by going online to www.ohlone.bkstr.com or visit the Ohlone College Bookstore on the Fremont campus.
The 10th-12th Grade 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/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 the Academic Calendar on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html) 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 page 24 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 the Academic Calendar on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html) and online at http://www.ohlone.edu/org/admissions/k12admission.html.
  - Receive a student ID number 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 25 and online at http://www.ohlone.edu/admissions/howtoregister.html. Students in grades 10-12 may not enroll in any PE, ATHL, or non-CSU/UC transferable courses. CSU/UC transferable courses are identified in WebAdvisor (https://webadvisor.ohlone.edu), 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 themselves for classes online via WebAdvisor (https://webadvisor.ohlone.edu). Instructions for WebAdvisor are found on page 25.
  - Payment must be received within five calendar days of registration or students may be dropped from classes due to non-payment. For further information please see page 58.
  - 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 or the drop box located outside the Cashier’s Office (Building 1, second floor, Fremont campus).
  - Pay by cash, check, or credit card at the Cashier’s Office in Building 1, second floor on the Fremont campus.

- **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.ohlone.bkstr.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

Placement Testing Center
Building 7, second floor, Room 7205 on the Fremont campus
(510) 659-6126
http://www.ohlone.edu/org/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 current, valid 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 placement process will take approximately two hours to complete 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 29 students at one time.
- Space is limited; therefore, students must make reservations for all placement tests by using the online reservation system at http://www.ohlone.edu/org/placement/reservation.html. Reservations can also be changed and cancelled online. Students must know their Ohlone College student ID number and have a valid e-mail address in order to make a reservation.
- 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 obtain a certificate or an associate degree.
- To take an English or math course (English 172-176 excepted).
- To take courses which have English or math prerequisites.
- 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 math 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 29 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 4½ 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 current, valid photo ID (passport, driver’s license, etc).
- 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 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, Counseling to request a retest earlier than the above guidelines.

NEW STUDENT ORIENTATION

Building 7, third floor on the Fremont campus
(510) 659-6036
orientation@ohlone.edu
http://www.ohlone.edu/org/orientation

Attending a New Student Orientation is a great way to learn more about the programs and services offered at Ohlone College which 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 college 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 college, learn where different college services are offered, meet other new students, get direct help from counselors, learn about baccalaureate 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 baccalaureate 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.

Students have these Orientation options:
- 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.

New F-1 Visa-holding students of Ohlone College should plan on attending the International Student Orientation, held one time prior to the start of the Spring and Fall Semesters. Please contact the International Programs and Services Office at (510) 659-6439 for more information.
REGISTRATION INFORMATION

Class Schedule
The Ohlone College Class Schedule is produced twice a year (Summer/Fall and Spring). The Class Schedule is made available online via WebAdvisor (https://webadvisor.ohlone.edu) and printed copies are currently available in the Counseling Department on the Fremont and Newark campuses. Application and registration procedures, academic calendar dates, and general information are also available on the Admissions and Records Web site (http://www.ohlone.edu/org/admissions).

Schedule for Registration
Continuing students are assigned the earliest registration times and receive a registration appointment 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. 10th-12th grade students cannot register for classes until they have completed the admission process.

Kindergarten-9th grade students receive the last opportunity to register, starting the first day of the term. Kindergarten-9th grade students cannot register for classes until they have completed the admission process.

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 in the Class Schedule and online at http://www.ohlone.edu/org/admissions/academiccalendar.html, 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.

Enrollment will not be allowed in a non-repeatable course that was previously completed with a grade of C or better. Enrollments will also not be allowed in a course that has already been repeated the maximum times allowed, per Title 5 of the California Education Code. All repeat policies are enforced through WebAdvisor and students will be blocked from registering for courses when the maximum number of enrollments has already been attained. A course with a letter grade, including a W, counts as an enrollment.

Per California Education Code 58161, effective Summer 2012 a course with a letter grade, including a W, counts as an enrollment. If a student receives a substandard grade (D, F, NP) at Ohlone the student will be allowed to enroll in that same course again in order to successfully complete the course. A student will be allowed three attempts, including W’s, to complete the course. The third enrollment in the course at Ohlone will become the final enrollment at Ohlone, regardless of the grade earned by the student. Once the course is completed with a satisfactory grade (A, B, C, or P) the course cannot be taken again at Ohlone. For example: During Fall 2011 a student received a W in ENGL-101A. During Spring 2012 the same student received an F in ENGL-101A. The next time that the student takes ENGL-101A, regardless of the grade (A, B, C, D, F, P, NP, or W), is the last time ENGL-101A can be taken at Ohlone College.

Did you know???
Ohlone ranks in the top 10% of all California community colleges for rates of transfer and degree completion!
Source: Accountability Reporting for Community Colleges

Class Schedule
The Ohlone College Class Schedule is made available online via WebAdvisor (https://webadvisor.ohlone.edu) and printed copies are currently available in the Counseling Department on the Fremont and Newark campuses. Application and registration procedures, academic calendar dates, and general information are also available on the Admissions and Records Web site (http://www.ohlone.edu/org/admissions).

Registrating for Courses with Prerequisites
Many courses have prerequisites that must be successfully completed prior to enrollment. Students registering for courses that require prerequisites will be allowed to register for the course during the term they are enrolled in the prerequisite course, even though final grades have not yet been posted. However, once final grades are posted, students must have completed the prerequisite course with a grade of C or better, or they will be dropped from the course.

Students will not be able to register for classes for which Ohlone does not have record that they have successfully completed the course prerequisites. Per Title 5 of the California Education Code, Kindergarten-12th grade classes cannot be used to meet college prerequisites.

Prerequisites Taken at Another College or University
Students who have completed the course prerequisite at another college or university must speak to a counselor (Building 7, third floor on the Fremont campus or at the Student Services Center in Room NC1312 on the Newark campus) about getting the prerequisite waived before the student will be able to register for the course. 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 approve a waiver and the student will be able to register online via WebAdvisor. Additional information about clearing prerequisites is available online at http://www.ohlone.edu/org/counseling/aboutcounseling/clearprereq.html.

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 on WebAdvisor 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 may check their status on the waitlist via their WebAdvisor account. There is no guarantee that students on a waitlist will be added into the class.

Students who have errors preventing registration such as an outstanding balance, unmet prerequisites, conflicts with another class, or overload issues will not be added into a class from the waitlist even if space is available in the class. These students will remain on the waitlist—even if space becomes available in the class—until the error preventing registration is corrected.

Students are restricted from waitlisting for more than one section of a class (for example, waitlisting for both ENGL-101A-01 and ENGL-101A-02). While WebAdvisor will allow students to waitlist for a class in which they are already registered, students will not be added into the waitlisted class as long as they are already registered in a different section of the same class. The student will need to drop the registered class in order to be added into the waitlisted class.

Students need to attend the first class session of any class for which they are still 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, even if space is available in the class. Students who decide not to take a class they have waitlisted need to drop themselves from the waitlist, as they will be subject to any fees and grades for classes in which they are registered from the waitlist. Students are added into classes from the waitlist through the date on the Academic Calendar in the Class Schedule and on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html). After that date, faculty have complete control over which students are added into classes.
**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 and on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academic_calendar.html) 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 through the 75% point of the class via WebAdvisor 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 encouraged to drop classes in which they are not doing well and are concerned that they may receive a substandard 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.

**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, and to a waitlist, view a class schedule, view placement test scores, view financial aid information, check a student balance, submit payments, print an unofficial transcript, and check 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 24 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/onlineapp.html, calling (510) 659-6110, or by making an appointment at the Counseling Window (Building 7, third floor on the Fremont campus).

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**Did you know?**
65% of Ohlone students are younger than 25 years of age.
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.

<table>
<thead>
<tr>
<th>Colleague ID Number: 0000002</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name: John</td>
<td>Enter the first name you used when you submitted an application to Ohlone.</td>
</tr>
<tr>
<td>Last Name: Doe</td>
<td>Enter the last name you used when you submitted an application to Ohlone.</td>
</tr>
<tr>
<td>Birth date (YYYYMMDD): 19910302</td>
<td>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).</td>
</tr>
<tr>
<td>Zip Code: 94538</td>
<td>Enter the five digit zip code you used when you submitted an application to Ohlone (for example, 94538).</td>
</tr>
</tbody>
</table>

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

The information entered to create the WebAdvisor account must be identical to the information that is on your student record. If an error message about invalid data appears it is because the information entered doesn’t match your student record. If you receive an error message about invalid data you need to contact the Office of Admissions and Records at (510) 659-6100 or by e-mail at admissions@ohlone.edu. Please provide the student ID number, first name, last name, birth date, and zip code so Admissions and Records staff can compare the information provided 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 class(es) 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) 056982 R. Mitchell TTh 8/26/13-12/13/13 7:00am-8:35am 1406
- Enter the Synonym (the six-digit number), 056982 in this example, in the first column on the left.
- Then enter the term, 2013 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 need to include their Ohlone
student ID number in any communication with Ohlone.
Ohlone College provides services and programs that enhance a student’s use of college offerings and facilitate progress toward academic, career, personal, and social goals. Student Services staff are committed to each student’s success and growth as a person. Student Services coordinates with all areas of the college to provide a college experience that is meaningful for students.

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

**ADMISSIONS AND RECORDS**

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

Newark campus, Room NC1312  
(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 of Admissions and Records 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 and career 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, “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 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:

- Value the importance of and develop a regular regimen of physical activity and/or exercise.
- Develop sport specific skill sets in preparation for transfer or entry into professional and/or Olympic sports.
- Demonstrate critical thinking skills as they apply to game strategies and situations.
- Develop and demonstrate the connection between preparation for and execution of work, commitment to personal and team goals, acceptance of team diversity, and leadership skills.

Ohlone College is a member of the Coast Conference. This conference includes 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>
</tr>
</thead>
<tbody>
<tr>
<td>Soccer (Men and Women)</td>
<td>Basketball (Men and Women)</td>
<td>Baseball (Men)</td>
</tr>
<tr>
<td>Volleyball (Women)</td>
<td>Softball (Women)</td>
<td>Softball (Women)</td>
</tr>
<tr>
<td>Water Polo (Men and Women)</td>
<td>Swim/Dive (Men and Women)</td>
<td></td>
</tr>
</tbody>
</table>

Eligibility requirements can be found on the California Community College Athletics Association’s (CCCAA) Web site at www.cccasports.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.

BASIC SKILLS PROGRAM

The Basic Skills Program at Ohlone College was created to coordinate efforts towards meeting the needs of students who place into Basic Skills courses. Basic Skills courses prepare students for college level work with an emphasis in reading, writing, mathematics, and English as a Second Language. The basic premise is that all students are capable of pursing college-level education provided that they have the necessary foundation. A committee consisting of instructors, counselors, and administrators meet regularly to maximize student success. They review educational research to identify best practices and encourage all faculty members teaching basic skills courses to incorporate those practices into their course instruction. (See Basic Skills Classes in Academic Regulations chapter).

BOOKSTORE

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

The Ohlone College Bookstore is owned and operated by the Follett Higher Education Group 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.ohlone.bkstr.com or call (510) 659-6061.

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 (Clergy 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-8:00pm on weekends. The Campus Police Services Office is located in Building 20 on the Fremont campus and is open from 8:00am-8:00pm 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)
To contact Campus Police Services on the Newark campus:

- Dial 2311 from campus phones. There are blue emergency phones located in each of the campus parking lots.
- Dial (510) 742-2311 from off-campus phones.

For medical emergencies on campus, do not hesitate to call 911 and then notify Campus Police Services.

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

Parking

There is no free parking at any of the Ohlone Community College District campuses. Parking permits may be purchased for each semester and cost $35 for Fall Semester, $35 for Spring Semester, and $20 for Summer Term. Motorcycle parking permits may also be purchased for each semester and cost $18 for Fall Semester, $18 for Spring Semester, and $10 for Summer Term. Semester parking permits may be purchased online at https://www.paymycycle.com/ohlone/parkingpermit.aspx. The Ohlone Bookstore no longer sells semester parking permits. One-day permits may also be purchased for $2 at each lot on the Newark campus and at vending machines located in parking lots C, D, H, M, and O on the Fremont campus. The parking fee structure and policies are subject to change.

Parking permits are required Monday-Friday from 6:00am-11:00pm and on Saturday from 7:00am-5:00pm. Daily permits should be displayed on the dashboard and are valid at both campuses for the day purchased. Semester permits must hang from the rearview mirror and are also valid at both the Fremont and Newark campuses. Parking policies are listed in detail in the Policies and Procedures chapter of this catalog.

Parking During Weekends and Holidays

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

COUNSELING DEPARTMENT

Fremont campus, Building 7, third floor
(510) 659-6110

Newark campus, Room NC1312
(510) 742-2340

http://www.ohlone.edu/org/counseling

Counselors meet with students individually, in small groups, workshops, and in classes to help students in achieving their academic goals and personal growth. Counselors are educated to directly assist students with a wide range of issues and are knowledgeable about other helpful resources at Ohlone and in the community. Counselors can provide career information and assessment, orientation, and other general counseling services. Counselors have current college transfer information and help students with transfer plans.

College counseling is intended to help students assess their current abilities and interests and 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.

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 visit Building 7, third floor on the Fremont campus.

New Students’ Responsibilities Regarding Counseling

After completing all enrollment steps, including placement testing and orientation, students should make an appointment with a counselor. Counselors are not assigned to students. Students should select their own counselor to work with on an on-going basis. Students who are using placement test results from another community college need to submit official documents showing their course placement as well as including contact information of a college official (counselor or placement test coordinator). Students should prepare for a counseling session by bringing unofficial copies of all transcripts for previously attended colleges and/or universities and by doing some initial exploratory research with regard to short and long-term goals. Students who want to transfer should identify several institutions they are considering.

Peer Mentoring for New Students

Peer Mentors are experienced Ohlone students who help new students attending the college. New Ohlone students can elect to have a Peer Mentor assigned to them. The Peer Mentors will contact their Mentees on a regular basis to make sure they are having a successful college experience. They will also invite Mentees to a variety of social activities in an effort to connect new students with their peers. To request a Peer Mentor, e-mail newstudent@ohlone.edu.

Peer Mentors also conduct campus tours, coordinate Welcome Day, receive leadership training, and assist with a variety of other campus events and services. To be considered for a Peer Mentor position, visit the Peer Mentor Website at http://www.ohlone.edu/org/peermentors/ for information on applying.

Continuing Students’ Responsibilities Regarding Counseling

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

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

All interested students may stop by the Counseling Department in Building 7, third floor on the Fremont campus or may call (510) 659-6110 to make an appointment or obtain more information. Students may also go online to http://www.ohlone.edu/org/counseling/aboutcounseling/onlineappt.html to make a counseling appointment. Appointments are 30 minutes in length and students are asked to have realistic expectations about what can be accomplished in this time. Students can learn more about specific counselors by visiting the Counseling Department Web page at http://www.ohlone.edu/org/counseling/ or by speaking to the Counseling staff.

Services for Re-entry Adults

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

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

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 mobility orientations; Learning Skills Program 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.

Parked 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 online at https://www.payemcite.com/ohlone/parkingpermit.aspx, 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-placement 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 baccalaureate 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 NC1312
(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, as some financial aid funds are limited. Students apply for financial aid by using the Free Application for Federal Student Aid (FAFSA). 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.

Students who have graduated from high school (or received a GED), 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 higher. 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 32 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:

Alfa Tech Cambridge Scholarship
Cargil Corp.
Comcast
Dutra-Cerro-Graden
Fremont Bank
Josephine Butala Scholarship
Kaiser Permanente
Pacific Light & Electric
San Tomas Voiture 365 40 et 8 Nursing Scholarship
Sobranto
Steelcase/One Work Place
TBP/Architecture

INTERNATIONAL PROGRAMS AND SERVICES

Fremont campus, Building 7, Room 7122
(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; international student 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 about transfer to a baccalaureate university. The office also assists with the administration of Ohlone College’s Study Abroad programs for United States and international students.

For more information, please refer to the International Student Admission section of this catalog (page 17), visit http://www.ohlone.edu/org/international, or call (510) 659-6439.

Did you know?

Ohlone has five approved Associate Degrees for Transfer; these associate degrees are in Communication Studies, Kinesiology, Mathematics, Psychology, and Sociology. Admission to the California State University is guaranteed to any community college student who earns an Associate Degree for Transfer.
<table>
<thead>
<tr>
<th>Type of Aid</th>
<th>Amount (per year)</th>
<th>Student Eligibility</th>
<th>Required Forms</th>
<th>Must Apply By</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRANTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board of Governors Fee Waiver (BOG)</td>
<td>Enrollment fee</td>
<td>CA resident, financial need</td>
<td>FAFSA or BOG Application</td>
<td>On-going throughout academic year</td>
</tr>
<tr>
<td>Federal Pell Grant</td>
<td>$555-$5,550 depending upon need and enrollment status</td>
<td>Financial need based on Expected Family Contribution (EFC)</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 $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 baccalaureate institution</td>
<td>CA resident, financial need, GPA criteria, enrolled at least 1/2 time</td>
<td>FAFSA, GPA verification, other documents required by Financial Aid Office</td>
<td>March 2, September 2 (competitive only)</td>
</tr>
<tr>
<td>State Cal Grant B</td>
<td>Up to $1,551</td>
<td>CA resident, financial need, GPA criteria, enrolled at least 1/2 time</td>
<td>FAFSA, GPA verification, other documents required by Financial Aid Office</td>
<td>March 2, September 2 (competitive only)</td>
</tr>
<tr>
<td>State Cal Grant C</td>
<td>Up to $576</td>
<td>CA resident, financial need, GPA criteria, vocational program, enrolled at least 1/2 time</td>
<td>FAFSA, GPA verification, other documents required by Financial Aid Office</td>
<td>March 2, September 2 (competitive only)</td>
</tr>
<tr>
<td><strong>SELF-HELP AID</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Work-Study</td>
<td>Up to $4,500 depending upon hours worked and eligibility</td>
<td>Financial need, enrolled at least 1/2 time</td>
<td>FAFSA and other documents required by Financial Aid Office</td>
<td>Dependent upon available positions</td>
</tr>
<tr>
<td><strong>LOAN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Direct Stafford Loan — Subsidized</td>
<td>Base amount up to $3,500 for first year; $5,500 for second year</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 Direct Stafford Loan — Unsubsidized</td>
<td>Base amount not subsidized eligible, or additional $2,000 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 semester</td>
<td>Enrolled at least 1/2 time, good repayment history, may require co-signor. Must be repaid before semester ends.</td>
<td>Emergency Short-Term Loan Application</td>
<td>Fall and Spring semesters only</td>
</tr>
<tr>
<td><strong>SCHOLARSHIPS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associated Students of Ohlone College (ASOC)</td>
<td>Amounts vary</td>
<td>Based on criteria established by donor organization</td>
<td>Ohlone College Scholarship Application</td>
<td>Deadlines vary</td>
</tr>
<tr>
<td>Ohlone College Foundation</td>
<td>Amounts vary</td>
<td>Based on criteria established by donor organization</td>
<td>Foundation Scholarship Application</td>
<td>Deadlines vary</td>
</tr>
<tr>
<td>Outside scholarships</td>
<td>Amounts vary</td>
<td>Based on criteria established by donor organization</td>
<td>Organization’s application</td>
<td>Deadlines vary</td>
</tr>
</tbody>
</table>
OM BUDSPERSON

Fremont campus, Building 7, second floor
(510) 659-7376
http://www.ohlone.edu/org/ombudsperson/

The Office of the Ombudsperson assists students in garnering disputes (academic and otherwise) as well as administrative complaints. The Office of the Ombudsperson can direct students to the appropriate channel(s) to be used in requesting a review of an action or decision. The Office of the Ombudsperson provides a safe and comfortable environment for students to discuss complaints, concerns, or problems confidentially. When appropriate, the office will initiate an informal intervention with the goal of facilitating a resolution that is acceptable to all parties involved.

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-2:30pm 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. 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) 659-6258 for more information.

STUDENT LIFE

Fremont campus, Building 7, second floor
(510) 659-6255
http://www.ohlone.edu/org/studentlife/

The Office of Student Life exists to provide co-curricular experiences for students attending Ohlone. The Office of Student Life offer students a place to meet new people, gain leadership skills, and have fun. The Office of Student Life serves as the hub for all student hosted events and activities. This is done through collaboration with other departments, programs, and organizations. By visiting the Office of Student Life students can learn how to join several student organizations at Ohlone College.

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
**Student Government**

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 the 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 Friday from 11:00am-1:00pm. For more information, stop by Student Activities in Building 7, second floor on the Fremont campus or go online to http://www.ohlone.edu/asoc.

**Student Activities**

Student Activities provides opportunities for student involvement at Ohlone College through social and cultural programs, student leadership training, and annual campus events such as Welcome Day, Soul Surge, and many others. The Student Activities staff advises student government (ASOC), student clubs, and produces co-curricular activities. Check with the Student Activities Office in Building 7, Room 7210, on the Fremont campus, (510) 659-6255, for more information about organized student programs and clubs, or visit http://www.ohlone.edu/studentactivities.

**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 Web site at http://www.ohlone.edu/org/campusactivities/studentclubs.html, 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 Anthropology Multi-Cultural Club
- 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
- 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

**Cafeteria and Vending Services**

Fremont campus, Building 5, second floor
Newark campus, Room NC1201, 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) 979-7913 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.

**TRANSFER CENTER**

Fremont campus, Building 7, third floor
(510) 659-6241
http://www.ohlone.edu/transfer

The Transfer Center provides resources to students wishing to explore college and university transfer. College and university recruiters come to Ohlone to meet with prospective students. Students can make an appointment through the Transfer Center to meet individually with a recruiter.

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 “The Road to Success: How to Choose Your Major,” “How to Write Your UC Personal Statement,” and “The Transfer Transition.”

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 54); Concurrent Enrollment with University of California, Berkeley (see page 54); and Cross Registration with California State University, East Bay (see page 54). Please visit http://www.ohlone.edu/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 and ENGL-101B, and MATH-101A and MATH-101B) may not be accepted in transfer if they have been taken out of sequence.

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.

TRI-CITIES ONE-STOP CAREER CENTER

Newark campus, Room NC1211
(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

TUTORING SERVICES

The Ohlone tutoring system is college-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. Subject-specific tutoring is also available on both campuses; please refer to the information below regarding subject-specific tutoring.

Did you know???

The California Community Colleges is the largest provider of workforce training in the state and nation.
Source: California Community Colleges Chancellor’s Office

Fremont campus

- Accounting tutoring: Accounting Lab in Building 5, Room 5302.
- Biology tutoring: Biology Learning Center in Building 8, Room 8318.
- Chemistry tutoring: Biology Learning Center in Building 8, Room 8318.
- English tutoring: English Learning Center in Hyman Hall, Room HH-217. The English Learning Center provides self-paced reading courses; support for the lab component of writing courses; and support for all students needing assistance/tutoring in writing, reading, and ESL assignments. Facilities are available for students to do Internet research and type their writing assignments.
- Speech Communication tutoring: Speech Communication Lab in Building 2, Room 2301.

Newark campus

- English tutoring: Craneum Cafe.
- Health Sciences: Done by appointment.
- Math tutoring: Room NC2306.
- Registered Nursing: Done by appointment.
- Respiratory Therapy: Done by appointment.
- Physical Therapist Assistant: Done by appointment.

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). Please visit http://www.gibill.va.gov/benefits/other_programs/veap.html for more information; the Post 9/11 GI Bill, Chapter 22; the Montgomery GI Bill-Active Duty, Chapter 30; the Montgomery GI Bill-Selected Reserve, Chapter 1606; Montgomery GI Bill – Active Reservists, Chapter 1607; and the Survivors & Dependents Educational Assistance Program, Chapter 35.

To apply for benefits, all eligible veterans and dependents must complete an Initial Application, VA Form 22-1190 (for veterans) or VA Form 22-5490 (for dependents), available online at http://www.gibill.va.gov or at the Veterans Affairs Office on the Fremont campus (Building 7, second floor). Students applying for VA benefits must have an Ohlone counselor review all previous academic transcripts to evaluate allowable credits and to prepare a Student Education Plan (SEP) within the student’s first semester at Ohlone.

Students receiving VA benefits who change their academic program, add or drop classes, or withdraw from the College must notify both the Veterans Affairs Office and Office of Admissions and Records. Students should contact Veterans Affairs at veteransaffairs@ohlone.edu with any questions.
CHAPTER 4  FEES AND REFUNDS

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 2013-2014 fees listed on page 37 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 review of academic records. 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 Semesters; $2.50 for Summer Term). 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 $19 for both Fall and Spring Semesters and $16 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 bonafide religious sect, denomination, or organization may seek exemption from the Health Services 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.
# 2013-2014 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>$46 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 review of academic records. 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 online. Fees are currently under review and are subject to change.</td>
</tr>
<tr>
<td>Non-resident Tuition</td>
<td>$218 per unit, in addition to Enrollment Fee (includes $15 per unit Capital Outlay Fee)</td>
<td>Required of all out-of-state students</td>
</tr>
<tr>
<td>Non-resident, non-citizen Tuition</td>
<td>$218 per unit, in addition to Enrollment Fee (includes $15 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>International Student Application Fee</td>
<td>$50</td>
<td>Non-refundable fee for new international student applications.</td>
</tr>
<tr>
<td>International Student Health Insurance Fee</td>
<td>$351</td>
<td>Required of all F-1 Visa-holding international students of Ohlone College possessing a Form I-20 issued by Ohlone College. Please refer to <a href="http://www.ohlone.edu/org/international/healthinsurance.html">http://www.ohlone.edu/org/international/healthinsurance.html</a> for exceptions.</td>
</tr>
<tr>
<td>Student Activity Fee</td>
<td>$5 for 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>$19 for Fall and Spring Semesters and $16 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 36.</td>
</tr>
<tr>
<td>Printing Fees</td>
<td>10¢ per printed black and white page, 60¢ per printed color page. PCounter account based printing system with $1 minimum/$25 maximum deposit. Regardless of deposit amount, each deposit has a 30¢ transaction fee.</td>
<td>Required for printed copies in all computer labs and classrooms. There are no refunds for PCounter account balances.</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>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></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>

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**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.
Instructional Materials Fees

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

A. The materials shall be tangible personal property that are owned or primarily controlled by an individual student.

B. The material is of a continuing value to the student outside of the classroom setting and is not wholly consumed, used up, or rendered valueless as it is applied in achieving the required course objectives that are to be accomplished under the supervision of an instructor during class hours.

C. The material shall not be solely or exclusively available from the District except if it is provided to the student at the District’s actual cost, and

1. The material is otherwise generally available, but is provided by the District for health and safety reasons, or

2. The material is provided in lieu of other generally available, but more expensive material that would otherwise be required.

D. Any materials not meeting these guidelines will be provided by the District to students at no cost to the student.

Unpaid Financial Obligations

The Ohlone Community College District may through its officers withhold transcripts, diplomas, and registration privileges, or any combination thereof, from any student who has been provided with written notice (via letter or e-mail) that 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 satisfactorily meets the financial obligation. This policy is authorized by the California Education Code Section 72237.

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

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) on 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) on 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 five 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 or the drop box located outside the Cashier’s Office (Building 1, second floor, Fremont campus). Students may pay in person with cash, check, or credit card. Mailed checks must be received in the Cashier’s Office within five 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 five 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.

REFUNDS

Refund dates for Fall, Spring, and Summer full-term classes are provided on the Academic Calendar, which is available in the Class Schedule and on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html). 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 in order 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’s Office 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’s Office 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 are available online at the Cashier Web page at http://www.ohlone.edu/org/studentrec/refunds.html.
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 higher 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 higher 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 higher. 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 higher.

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%. 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%.

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% 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% 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 below 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. The Student Success Program was created to assist students with this. 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, and/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 semester is 2.00 or higher. A returning or transfer student on Academic Dismissal who has sat out of college for one or more 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. 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 of all currently enrolled courses;
- Achieving a grade point average of 2.00 or higher at the end of each semester.

Students readmitted by petition will continue to be on dismissal status for their readmitted semester of enrollment. Students must continue to follow the procedures for readmission 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 Office of the Vice President, Student Services located in Building 7, third floor on the Fremont campus and online at http://www.ohlone.edu/org/student/services/docs/standardsofstudentconduct-noticeofviolationform.pdf.

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 coursework (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 42. 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/studentpetitionform.pdf. Completed petitions need to be submitted to the Office of Admissions and Records on the Fremont campus (Building 7, second floor). 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.

Students requesting an overload must have a cumulative grade point average of 3.20 or higher and must have completed at least 15 units of college or university coursework after graduation from high school. Student enrollment history will also be considered. For example, students who have withdrawn from several classes, especially during terms in which previous overloads have been granted, may be denied permission to enroll in an overload for the following term.

**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 online via WebAdvisor (https://webadvisor.ohlone.edu) within approximately 10 days after the semester ends.

**Grading System**

*(per California Code of Regulations, Title 5, §55023)*

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

**Evaluable Grades**

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

**Non-Evaluable Grades**

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

**Grade Point Average (GPA)**

The grade point average is computed using the following formula: divide the number of grade points earned in classes where grades were awarded by the number of units attempted in those classes. Units earned in 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.

Under this policy, the College offers:

1. Some courses solely for Pass/No Pass. These courses are identified by the code CR in the course description in this catalog, in the Class Schedule, and in WebAdvisor. The credit grade is awarded to indicate the completion of such a course with a C or better grade. A Pass 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 courses are identified by the code GC in the course description in this catalog, in the Class Schedule, and in WebAdvisor.

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 CR in the course description in this catalog, in the Class Schedule, and in WebAdvisor.

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 and on the Admissions and Records Web page. Once the deadline has passed, students may not change their choice of grading method. The same provisions described under (1) above apply to GC courses. If the student does not submit the Pass/No Pass Authorization 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 and on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html), 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 on the Academic Calendar in the Class Schedule and on the Admissions and Records Web page.

2013-2014 OHLONE COLLEGE CATALOG
In the event that a student has failed to complete the final examination, a final class project, or a term paper due to illness or unforeseen personal emergency, the instructor shall notify the student and appropriate assignment that would compel the student to complete three hours of work during an 18-week semester. Therefore, a three-unit lecture course would require 3.40 hours of work each week for sixteen weeks. The audit fee shall be $15 per unit per term and is not refundable. Students enrolled in credit classes for 10 or more units per semester shall not be charged a fee to audit 3 or fewer units per term.

Incomplete Grades
An incomplete grade may be assigned by the instructor 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. The completed contract must then 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 3 or fewer units per term.

REPETITION OF COURSES

For Credit
Generally, courses are not repeatable for credit. Some specified courses may be repeated for credit. These courses are designated by the word “Repeatable” in the Ohlone College Catalog, WebAdvisor (https://webadvisor.ohlone.edu), and Class Schedule. The number after the word Repeatable indicates the number of times the course may be repeated for credit.

Enrollment will not be allowed in a non-repeatable course that was previously completed with a grade of C or better. Enrollments will also not be allowed in a course that has already been repeated the maximum times allowed, per Title 5 of the California Education Code. All repeat policies are enforced through WebAdvisor and students will be blocked from registering for courses when the maximum number of enrollments has already been attained. A course with a letter grade, including a W, counts as an enrollment.

Per California Education Code §58161, effective Summer 2012 a course with a letter grade, including a W, counts as an enrollment. If a student receives a substandard grade (D, F, NP) at Ohlone the student will be allowed to enroll in that same course again in order to successfully complete the course. A student will be allowed three attempts, including W’s, to complete the course. The third enrollment in the course at Ohlone will become the final enrollment at Ohlone, regardless of the grade earned by the student. Once the course is completed with a satisfactory grade (A, B, C, or P) the course cannot be taken again at Ohlone. For example: During Fall 2011 a student received a W in ENGL-101A. During Spring 2012 the same student received an F in ENGL-101A. The next time that the student takes ENGL-101A, regardless of the grade (A, B, C, D, F, P, NP, or W), is the last time ENGL-101A can be taken at Ohlone College.

To Improve a Grade
Any course may be repeated one time to improve a substandard grade (D, F, or NP), provided the student has not already reached the maximum three enrollments for the course. 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 again at Ohlone. The student will need to submit a Student Petition for Academic 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 division 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 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 three-unit lecture course would require 3.40 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 service and/or non-college 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 basic training, have been honorably discharged, and with a DD-214 form to the Office of Admissions and Records on the Fremont campus are eligible for six elective credits and will satisfy the Physical Education/Wellness requirement (Area V) for the associate degree using the Ohlone General Education (Plan A) option. Veterans who have completed service school training beyond basic training may be eligible for additional credit after the Office of Admissions and Records evaluates an official AARTS or SMART transcript. In addition to basic training credit, a maximum of 16 semester credits may be granted for military service and training.

Other non-collegiate courses as recommended by the American Council on Education (ACE) may be accepted for credit. A maximum of 16 semester units may be granted in this category.

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 College 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 will routinely re-evaluate 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 45 to determine which Advanced Placement exams may be counted toward Ohlone General Education (Plan A) and major requirements and which Advanced Placement exams may be counted toward CSU General Education (Plan B) or IGETC (Plan C) 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. Units attempted, units completed, and grade points for these classes are not included in a student’s cumulative totals nor are they used in calculation of the grade point average. All units, grades, and grade points still appear on the student’s permanent record; however, these courses are identified by an asterisk in the note code column.

Per §55035 of the California Education Code, students may not receive more than 30 units of credit for basic skills coursework.

FINAL EXAMINATIONS

Final examinations are given at the end of each semester. Students are required to take the final examinations for the classes in which they are enrolled. No examinations are administered prior to the regular schedule except under extraordinary circumstances. The Final Exams Schedule appears in the printed Class Schedule and on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html#finalexams). 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 preceeding 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 Term, 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 Term. 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 Dean, Enrollment Services 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, Ohlone College personnel cannot release a student’s records or speak with parents and/or guardians about any student’s academic records without the student completing the “Release of Information” form. The exception to this policy is if the student is claimed as a dependent by either parent for tax purposes. Ohlone College reserves the right to require documents verifying a student’s status as a dependent. The “Release of Information” form is available online at http://www.ohlone.edu/org/admissions/forms/waiverreleaseofinfo.pdf.

Directory Information

Directory information as defined by law includes one or more of the following: student’s name, address, telephone number, date and place of birth, major field of study, class schedule, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous public or private school attended by the student. Under federal law, Ohlone College may release directory information to the public. However, Ohlone 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 Dean, Enrollment Services 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 on the Financial Aid Web site 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 satisfactory progress toward completing their academic course of study. For more information please contact 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 that the student does 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 requirement 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 to the Office of Admissions and Records on the Fremont campus or the Student Services Center on the Newark campus by the deadline posted in the Academic Calendar (http://www.ohlone.edu/org/admissions/academicalendar.html).

Withdrawal from Class

See Dropping Classes.
### Advanced Placement (AP) Credit Chart

<table>
<thead>
<tr>
<th>AP Examination</th>
<th>Minimum Score</th>
<th>Total Semester Units Awarded</th>
<th>Units/GE Area</th>
<th>Ohlone Equivalent</th>
<th>Minimum Score</th>
<th>Total Semester Units Awarded</th>
<th>Units/GE Area</th>
<th>Minimum Score</th>
<th>Total Semester Units Awarded</th>
<th>Units/GE Area</th>
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</thead>
<tbody>
<tr>
<td>Art, History</td>
<td>3,4&lt;sup&gt;1&lt;/sup&gt;</td>
<td>6</td>
<td>3 units/Area IA</td>
<td>ART-103A and ART-103B</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C</td>
<td>3</td>
<td>5.3</td>
<td>3 units/Area 3</td>
</tr>
<tr>
<td>Art, Studio</td>
<td>3</td>
<td>3</td>
<td>3 units/Area IIIB</td>
<td>N/A</td>
<td>3</td>
<td>3</td>
<td>3 units/Area SB and lab</td>
<td>3</td>
<td>5.3</td>
<td>3 units/Area 2</td>
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<tr>
<td>Biology</td>
<td>3</td>
<td>6</td>
<td>3 units/Area I</td>
<td>BIOL-130</td>
<td>3</td>
<td>6</td>
<td>4 units/Area B2 and B3</td>
<td>3</td>
<td>5.3</td>
<td>3 units/Area 3</td>
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<tr>
<td>Calculus AB&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
<td>6</td>
<td>3 units/Area IVB and Area IVC</td>
<td>MATH-101A</td>
<td>3</td>
<td>3</td>
<td>3 units/Area B4</td>
<td>3</td>
<td>2.7&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 units/Area 2</td>
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<tr>
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<td>3 units/Area IVB and Area IVC</td>
<td>MATH-101A and MATH-101B</td>
<td>3</td>
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<td>CHEM-102</td>
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<td>6</td>
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<td>5.3</td>
<td>3 units/Area 5A and lab</td>
</tr>
<tr>
<td>Chinese Language and Culture</td>
<td>3</td>
<td>6</td>
<td>3 units/Area IIIB</td>
<td>N/A</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C</td>
<td>3</td>
<td>5.3</td>
<td>3 units/Area 3 and Area 6</td>
</tr>
<tr>
<td>Comparative Government and Politics</td>
<td>3</td>
<td>3</td>
<td>3 units/Area II</td>
<td>N/A</td>
<td>3</td>
<td>3</td>
<td>3 units/Area D</td>
<td>3</td>
<td>2.7&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 units/Area 4</td>
</tr>
<tr>
<td>Computer Science A&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>3</td>
<td>3 units/Area IVB</td>
<td>N/A</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Computer Science AB&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>6</td>
<td>3 units/Area IVB</td>
<td>N/A</td>
<td>3</td>
<td>6</td>
<td>N/A</td>
<td>3</td>
<td>2.7</td>
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<tr>
<td>English Language</td>
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<td>6</td>
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<td>3 units/Area A2 and C2</td>
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<td>6</td>
<td>6 units/Area A2 and C2</td>
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<td>3 units/Area 1 or Area 3</td>
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<td>3 units/Area I</td>
<td>N/A</td>
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<td>4 units/Area B1 and B3</td>
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<td>2.7&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 units/Area 5A and lab</td>
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<td>3 units/Area II</td>
<td>N/A</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C or Area D</td>
<td>3</td>
<td>5.3</td>
<td>3 units/Area 3 and Area 6</td>
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<td>3 units/Area IIIB</td>
<td>N/A</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C</td>
<td>3</td>
<td>5.3</td>
<td>3 units/Area 3 and Area 6</td>
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<tr>
<td>French Literature</td>
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<td>6</td>
<td>3 units/Area IIIB</td>
<td>N/A</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C</td>
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<td>5.3</td>
<td>3 units/Area 3 and Area 6</td>
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<td>German Language</td>
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<td>6</td>
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<td>N/A</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C</td>
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<td>5.3</td>
<td>3 units/Area 3 and Area 6</td>
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<tr>
<td>Human Geography</td>
<td>3</td>
<td>3</td>
<td>3 units/Area II</td>
<td>N/A</td>
<td>3</td>
<td>3</td>
<td>3 units/Area D</td>
<td>3</td>
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<td>3 units/Area 4</td>
</tr>
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<td>Italian Language and Culture</td>
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<td>6</td>
<td>3 units/Area IIIB</td>
<td>N/A</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C</td>
<td>3</td>
<td>5.3</td>
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<tr>
<td>Japanese Language and Culture</td>
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<td>3 units/Area IIIB</td>
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<td>3 units/Area C</td>
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<td>Latin Literature</td>
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<td>6</td>
<td>3 units/Area C</td>
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<td>3 units/Area 3 and Area 6</td>
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<td>Latin: Vergil</td>
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<td>3 units/Area C</td>
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<td>Music Theory</td>
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<td>3 units/Area IIIB</td>
<td>MUS-110A and MUS-111A</td>
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<td>3 units/Area C</td>
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<td>5.3</td>
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<tr>
<td>Physics B&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
<td>6</td>
<td>3 units/Area I</td>
<td>PHYS-108</td>
<td>3</td>
<td>6</td>
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<td>5.3</td>
<td>3 units/Area 5A and lab</td>
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<tr>
<td>Physics C (electricity/magnetism)&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3</td>
<td>4</td>
<td>3 units/Area I</td>
<td>N/A</td>
<td>3</td>
<td>4</td>
<td>4 units/Area B1 and B3</td>
<td>3</td>
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<td>3 units/Area 5A and lab</td>
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<tr>
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<td>4</td>
<td>3 units/Area I</td>
<td>N/A</td>
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<td>4</td>
<td>4 units/Area B1 and B3</td>
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<td>2.7&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>Psychology</td>
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<td>PSY-101</td>
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<td>3 units/Area D</td>
<td>3</td>
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<td>3 units/Area IIIB</td>
<td>SPAN-101A</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C</td>
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<td>5.3</td>
<td>3 units/Area 3 and Area 6</td>
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<td>Spanish Literature</td>
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<td>6</td>
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<td>6</td>
<td>3 units/Area C</td>
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<td>Statistics</td>
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<td>3 units/Area IVB and Area IVC</td>
<td>MATH-159</td>
<td>3</td>
<td>3</td>
<td>3 units/Area B4</td>
<td>3</td>
<td>2.7&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 units/Area 2</td>
</tr>
<tr>
<td>US Government and Politics</td>
<td>3,4&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3</td>
<td>3 units/Area II</td>
<td>PS-102</td>
<td>3</td>
<td>3</td>
<td>3 units/Area D and US-2</td>
<td>3</td>
<td>2.7&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 units/Area 4</td>
</tr>
<tr>
<td>US History</td>
<td>3</td>
<td>6</td>
<td>3 units/Area II or Area IIIB</td>
<td>HIST-117A and HIST-117B</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C or Area D or US-1</td>
<td>3</td>
<td>5.3</td>
<td>3 units/Area 3 or Area 4</td>
</tr>
<tr>
<td>World History</td>
<td>3</td>
<td>6</td>
<td>3 units/Area II or Area IIIB</td>
<td>N/A</td>
<td>3</td>
<td>6</td>
<td>3 units/Area C or Area D</td>
<td>3</td>
<td>5.3</td>
<td>3 units/Area 3 or Area 4</td>
</tr>
</tbody>
</table>

<sup>1</sup> 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.

<sup>2</sup> If a student passes more than one exam in calculus or computer science, only one exam may be applied to a degree.

<sup>3</sup> 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.

<sup>4</sup> 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.
Successful completion of approved programs at Ohlone College may lead to:

- An Associate in Arts (AA) or Associate in Science (AS) degree;
- An Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) 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 baccalaureate college or university.

Although these objectives are listed separately, it is possible to achieve multiple goals 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 baccalaureate 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 as possible in their academic career, 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 be hand-delivered in a sealed, unopened college or university 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 on the Fremont campus and in the Student Services Center on the Newark campus. Counseling appointments may be made online at http://www.ohlone.edu/org/counseling/aboutcounseling/onlineappt.html.

1. Determine if
   a. you want to earn a Certificate of Accomplishment, which consists of 6-17.5 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 baccalaureate college/university with an associate degree from Ohlone College. Go to #5.
   e. you want to transfer to a baccalaureate college/university without an associate 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 58-59.
   b. Refer to the appropriate curriculum guide on the page referenced on the list.
   c. Select all the courses required for the Certificate of Accomplishment. The major requirements are listed on the Curriculum Guides on pages 60-101.
   d. Complete all of the required courses with the minimum Grade Point Average and residency requirement.
   e. Submit an application to the Office of Admissions and Records on the Fremont campus by the date published in the Class Schedule and on the Academic Calendar on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html).

3. Certificate of Achievement
   a. Select a Certificate of Achievement from the list of programs on pages 58-59.
   b. Refer to the appropriate curriculum guide on the page referenced on the list.
   c. Complete all the courses required for the Certificate of Achievement. The major requirements are listed on the Curriculum Guides on pages 60-101.
   d. Complete all of the required courses with the minimum Grade Point Average and residency requirement.
   e. Apply for awarding of the certificate via your WebAdvisor account (https://webadvisor.ohlone.edu) or submit an application to the Office of Admissions and Records on the Fremont campus by the date published in the Class Schedule and on the Academic Calendar on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html).

4. Associate degree
   a. Read the associate degree requirements on page 48.
   b. Determine which General Education Plan most corresponds with your academic goals. Refer to the General Education Plans/Major Options Chart on page 51 for guidance or consult a counselor. Ohlone College General Education (Plan A) cannot be used for students earning an Associate Degree for Transfer (AA-T or AS-T).
   c. Select a major from the programs on pages 58-59. The associate degree requirements are listed on the Curriculum Guides on pages 60-101. Note that not all of the programs listed on pages 58-59 are comprehensive enough to constitute a major, so you must select a program from those listed under the Associate Degree column.
   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 (https://webadvisor.ohlone.edu) or submit an application to the Office of Admissions and Records on the Fremont campus by the date published in the Class Schedule and on the Academic Calendar on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html).

5. Transfer with an associate degree
   a. Refer to the transfer information on pages 52-54.
   b. Determine which General Education Plan most corresponds with your academic goals. Refer to the General Education Plans/Major Options Chart on page 51 for guidance or consult a counselor. Ohlone College General Education (Plan A) cannot be used for students earning an Associate Degree for Transfer (AA-T or AS-T).
   c. Select a major from the programs on pages 58-59. The associate degree requirements are listed on the Curriculum Guides on pages 60-101. Note that not all of the programs on pages 58-59 are comprehensive enough to constitute a major, so you must select a program from those listed under the Associate Degree column.
   d. Consult ASSIST at 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 (https://webadvisor.ohlone.edu) or submit an application to the Office of Admissions and Records on the Fremont campus by the date published in the Class Schedule and on the Academic Calendar on the Admissions and Records Web page (http://www.ohlone.edu/org/admissions/academiccalendar.html).
   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 52-54.
   b. Follow the CSU General Education Requirements (Plan B) on page 56 to transfer to the California State University or follow the IGETC General Education Requirements (Plan C) on page 57 to transfer to the University of California, California State University, or private/out-of-state institutions. See the IGETC General Education requirements (Plan C) on page 57 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.
   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. Fulfill the General Education requirements of either CSU General Education (Plan B) or IGETC (Plan C).
   e. Complete the courses with the minimum Grade Point Average.
   f. Meet with a counselor to determine if you can also earn an associate degree before you transfer.
   g. Request a General Education Certification from the Office of Admissions and Records on the Fremont campus.
   h. Request that your official Ohlone College transcripts are sent to your transfer institution.
ASSOCIATE IN ARTS AND ASSOCIATE IN 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, students 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 option 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 four 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 51.)

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 in this catalog. Upon completion of these 18-20 units; the general education requirements specific for either Ohlone College (Plan A), CSU GE (Plan B), or IGETC (Plan C); and any necessary elective requirements, students will be awarded an Associate in Arts degree in the specified area.

Associate Degree for Transfer to CSU

California Community Colleges are now offering associate degrees for transfer to the CSU. These include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses. Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

Ohlone College currently has five approved associate degrees for transfer, and more associate degrees for transfer are planned. Ohlone’s associate degrees for transfer include the Associate in Arts in Communication Studies for Transfer; the Associate in Arts in Kinesiology for Transfer; the Associate in Science in Mathematics for Transfer; the Associate in Arts in Psychology for Transfer; and the Associate in Arts in Sociology for Transfer. More associate degrees for transfer will be added as they are approved by Ohlone’s Curriculum Committee, Board of Trustees, and the Chancellor’s Office for the California Community Colleges. Students graduating with an Associate Degree for Transfer cannot use Ohlone College (Plan A) General Education; only CSU (Plan B) or IGETC (Plan C) General Education are available for AA-T or AS-T students.

To find out which CSU campuses accept each Associate Degree for Transfer, please go to http://www.adegreewithaguarantee.com/Degrees.aspx. Current community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

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 a counselor to assess the course requirements for specific universities. Upon completion of these majors; the general education requirements specific for either Ohlone College (Plan A), CSU GE (Plan B), or IGETC (Plan C); and any necessary elective requirement, the student will be awarded an Associate in Arts or an Associate in Science degree in the specified area.

Transfer Associate Degrees

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Students transferring to a CSU campus that accepts the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). The associate degree for transfer may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.
Occupational Majors

Occupational programs are available to students interested in preparing for employment in the fields listed on pages 58-59. 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 Ohlone College (Plan A), CSU GE (Plan B), or IGETC (Plan C); and any necessary elective requirements, students will be awarded an Associate in Arts or an Associate in Science degree in the specified area.

ASSOCIATE DEGREE:
GRADUATION INFORMATION

The successfully completed Associate in Arts General Education pattern may be applied to one or more Associate in Arts degrees; the successfully completed Associate in Science General Education pattern may be applied to one or more Associate in 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 44.) 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.

A Graduation Application must be submitted no later than the deadline posted on the Academic Calendar in the semester in which the student expects to complete requirements. Please refer to the Academic Calendar in the Class Schedule or the Admissions and Records Web page (www.ohlone.edu/ org/admissions) 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 graduation application can be processed. The student’s transcript will certify the student’s graduation as either the last day of Fall Semester, Spring Semester, or Summer Term, as appropriate. There is only one formal commencement ceremony held each year at the end of the Spring Semester. All graduates who complete requirements during the academic 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.

Did you know?

CSU East Bay, San José State University, and San Francisco State University are the most popular CSU destinations for Ohlone students.

GENERAL EDUCATION

General Education Philosophy

The three patterns of General Education courses (Ohlone College, CSU GE, and IGETC) provide a comprehensive and well-rounded education that promotes the student’s personal, cultural, and intellectual growth. Completing these General Education 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, intercultural/international studies, physical education, and information competency will enable students to transfer and apply knowledge in multiple domains and solve everyday life problems.

General Education: Ohlone College General Education Pattern

The Ohlone College (Plan A) General Education pattern requires a minimum of 18 units in completing an Ohlone-specific general education pattern, including intercultural/international studies, wellness, and information competency components. Ohlone College (Plan A) requirements may also be met through the reciprocity agreement explained on page 52. The Ohlone College (Plan A) General Education pattern is recommended for students whose immediate goal is to complete an associate degree with either a general or occupational major. Students who desire to complete an Associate in Arts for Transfer or an Associate in Science for Transfer cannot use Ohlone College (Plan A) General Education. 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 Rationale
V. Physical Education/Wellness
VI. Intercultural/International Studies
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 includes introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics, and other scientific disciplines.

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

1. Analyze and apply concepts of biological and/or physical science obtained through the scientific method.

Area I  Social and Behavioral Sciences

Social and behavioral science courses increase the understanding of individual and group-influenced behavior in a variety of contexts: geographic location, economic structures, historical background, political institutions, social groups, societies, and the individual person.

Courses will challenge students to think critically about these contexts and should promote appreciation of how societies and social subgroups operate within them. Courses will also develop students' abilities to recognize and apply appropriate methods of inquiry to the particular social science areas that they are studying.

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

1. Identify and apply the major theories and methods of inquiry of the relevant social or behavioral science to a variety of contexts in order to investigate, analyze, or predict individual or group behavior.
2. Describe how individuals and/or groups are influenced by their social, cultural, and/or historical contexts.
3. Apply disciplinary knowledge from the social or behavioral sciences to contemporary ethical or social dilemmas.

Area III  Fine Arts/Humanities

Courses in the fine arts and humanities area cultivate intellect, imagination, sensibility, and sensitivity. Courses fulfilling this requirement study great works of the human imagination; increase awareness and appreciation of the traditional humanistic disciplines such as fine and performing arts, literature, music, philosophy, history, and communications; impart an understanding of the interrelationship between creative art, the humanities, and the self; provide exposure to both Western and non-Western cultures; may include a foreign language course that contains a cultural component as opposed to a course that focuses solely on skills acquisition. Fine arts courses are theory-based or historical. In addition to the traditional lecture classes in humanities, the humanities area may include arts courses that are experiential or participatory.

A. Fine Arts

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

1. Analyze and value modes of artistic expression.

B. Humanities

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

1. Identify the influence of cultural, artistic, social, economic, or political forces on human experience, thought, or expression.

Area IV  Language and Rationality

Courses in language and rationality provide students with the opportunity to develop their critical thinking and communication skills, as well as their computational skills. Courses in these areas focus on writing, argument, analysis, problem solving, and verbal communication.

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 for a variety of purposes, using correct grammar and appropriate style.

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, draw conclusions, and evaluate evidence.
2. Communicate an idea clearly, either verbally or in written form.

C. Math Proficiency

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

1. Demonstrate the ability to think analytically by applying the concepts and techniques of 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 personal wellness.

A. Physical Education

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

1. Value the importance of and develop a regular regimen of physical activity and/or exercise.
2. Demonstrate fundamental skills incorporating the techniques, rules, and strategies of the activity.

B. Wellness

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

1. Formulate a personal wellness plan incorporating the basic principles of a healthful lifestyle.

Area VI  Intercultural/International Studies

The Intercultural/International Studies requirement is intended to instill in students an appreciation of peoples and cultures other than their own. Students who fulfill this requirement should be able to empathize with and respect those from different cultural backgrounds, and realize the interconnectedness of all peoples. The requirement is meant to help ensure that Ohlone College graduates acquire the perspective necessary for an enlightened, diverse global citizenry. Students taking a course in these areas will be able to recognize and negotiate the complex ethics and politics of construing meaning and building social relationships across differences; e.g.: ethnocentrism, nationalism, cultural imperialism, cultural appropriation, and homogenization of nations and cultures.

Courses which satisfy the Ohlone College Intercultural/International Studies requirement shall be courses wholly focused on the following topics: culture, imperialism, cultural appropriation, and homogenization of nations and cultures. Courses that satisfy the aforementioned topics within a U.S. context, or within an international or global context such as technology, economic development, cross national communication, cultural relations, and world art and literature.

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

1. Analyze the ways historical, cultural, and/or social conditions impact a particular intercultural/international group or culture.
2. Develop sensitivity and skills for living and working in a culturally diverse world.

Area VII  Information Competency

Information Competency is the ability to identify an information need, to find the needed information efficiently, and to use information effectively and ethically. Information Competency combines aspects of library literacy, research methods, critical thinking, and technological literacy.

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

1. Develop effective research strategies.
2. Locate, retrieve, evaluate, and use information ethically and legally.

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

The California State University (CSU GE; 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 California State University (CSU GE; Plan B) pattern is recommended for students completing an associate degree and it enables students to meet lower division general education requirements at a CSU. California State University (CSU GE; 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 Plans/Major Options Chart

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<tr>
<th>Area</th>
<th>General Education Plans/Major Options Chart</th>
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<tbody>
<tr>
<td>Area V</td>
<td>Physical Education/Wellness</td>
</tr>
<tr>
<td>Area VI</td>
<td>Intercultural/International Studies</td>
</tr>
<tr>
<td>Area VII</td>
<td>Information Competency</td>
</tr>
<tr>
<td>General Focus</td>
<td>For students whose immediate educational goal is to complete an associate degree. Provides maximum flexibility in course selection.</td>
</tr>
<tr>
<td>Transfer Focus</td>
<td>For students desiring to complete most lower division major preparation courses; will require additional General Education after transfer.</td>
</tr>
<tr>
<td>Occupational Focus</td>
<td>For students whose immediate educational goal is to complete an associate degree with a specific vocational major.</td>
</tr>
</tbody>
</table>

Ohlone offers more than 175 associate degrees and certificates!
General Education: Intersegmental General Education Transfer Curriculum (IGETC; Plan C)

The Intersegmental General Education Transfer Curriculum (IGETC; Plan C) pattern requires a minimum of 35-38 units in completing a General Education pattern acceptable at either a UC or CSU. 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. Intersegmental General Education Transfer Curriculum (IGETC; Plan C) is generally combined with an associate degree and it enables students to meet the lower division general education requirements at either a UC or CSU. Intersegmental General Education Transfer Curriculum (IGETC; 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 (Livermore), 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 coursework 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 bachelor’s degree from a regionally accredited college or university is not required to fulfill the general education requirements to earn an associate degree from Ohlone College.

Certificate 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 Curriculum Committee, Ohlone Community College District Board of Trustees, 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 often 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 the California Community College Chancellor’s Office, 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 deadline posted on the Academic Calendar in the semester in which the student expects to complete requirements. Please refer to the Academic Calendar in the Class Schedule or the Admissions and Records Web page (www.ohlone.edu/org/admissions) 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 Curriculum Committee, Ohlone Community College District Board of Trustees, and consist of a maximum of 17.5 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 (§55070.b), 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.

UNIVERSITY TRANSFER

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.
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 higher (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 higher. 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 higher (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. Students should consult ASSIST (www.assist.org) and/or the catalog of the CSU campus of their choice to find out specific details regarding transfer, major, and breadth requirements.

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 CSU General Education requirements on page 56.) 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 on the Fremont campus or online at http://www.ohlone.edu/org/admissions/forms/igetrequestform.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 in the Class Schedule, catalog, and WebAdvisor (https://webadvisor.ohlone.edu) identifying them 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 www.calstate.edu/SAS/impactioninfo.shtml.

Transfer to the University of California
Students are eligible for admission as a UC upper division transfer student if they complete 60 or more transferable semester units and

- Have a college grade point average of 2.40 or higher (2.80 for non-California residents) in all UC-transferable college units attempted;
- Are in good standing at the last college or university attended;
- Have completed or will complete prior to transfer with a grade of C or better:
  - Two transferable English courses
  - One mathematical concepts and quantitative reasoning course
  - Four UC transferable courses from at least two of the following subject areas:
    - Arts and humanities
    - Social and behavioral sciences
    - Physical and biological sciences

At most UC campuses admission is competitive and a grade point average higher than the 2.40 minimum is required. In most cases, students may transfer up to 70 semester units of credit from a community college. 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.

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/transfer/index.html.

Students who have completed the IGETC General Education requirements (see page 57) can request that Ohlone College certify the completion of this general education pattern. After students transfer they must also complete any additional upper division or other additional units specifically required by the UC campus. Requests for general education certification may be obtained at the Office of Admissions and Records on the Fremont campus or online at http://www.ohlone.edu/org/admissions/forms/igetrequestform.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 are missing no more than two courses from the IGETC pattern may request that Ohlone partially certify their general education. Students would then be required to complete the remaining general education requirements at the transfer campus according to its own policies and procedures.

(continued on next page)
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 Counseling Department if they desire courses to be evaluated for possible certification.

The Ohlone College catalog, Class Schedule, and WebAdvisor (https://webadvisor.ohlone.edu) 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 “selective,” 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 institutions. Admissions requirements and general education requirements vary from college to college. To make transferring to a private or out-of-state 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 IGETC requirements on page 57.) 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. The IGETC certification may be obtained through the Office of Admissions and Records on the Fremont campus or online at http://www.ohlone.edu/org/admissions/forms/igetcertrequestform.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 Ohlone’s 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 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, Monterey Bay
- Golden Gate University
- University of California, Davis
- University of California, Irvine
- University of California, Merced
- University of California, Riverside
- University of California, Santa Barbara
- University of California, Santa Cruz

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.
# Ohlone College General Education: Plan A

The general education breadth requirements for this plan are unique to Ohlone.

Students can use this plan to fulfill the GE Requirements for an Associate in Arts or Science Degree (AA or AS) at Ohlone. This GE plan may not be used for the Associate Degree for Transfer (AA-T or AS-T).

Please note:
- A letter grade of C or better must be earned for each course used to fulfill Area IV.
- Courses used to satisfy Areas I-V with an * may also be used in Areas VI and VII.

### AREA I  NATURAL SCIENCES

<table>
<thead>
<tr>
<th>AA Degree (complete 3 units)</th>
<th>AS Degree (complete 6 units)</th>
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</thead>
</table>

### AREA II  SOCIAL AND BEHAVIORAL SCIENCES

<table>
<thead>
<tr>
<th>AA, AS Degree (complete 3 units)</th>
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</table>

*Courses listed with an * can also be counted in Area VI and/or Area VII.

### AREA III  FINE ARTS/HUMANITIES

<table>
<thead>
<tr>
<th>AA Degree (complete 3 units from A and 1-4 units from B)</th>
<th>AS Degree (complete 3 units from A or B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. FINE ARTS: ART 100, 101, 103A*, 103B*, 131; HIS 141, 142, 143; IS 100; MUS 101, 102, 102*, 103, 104*, 121, 125; TD 100, 101, 102, 109</td>
<td></td>
</tr>
</tbody>
</table>

*Courses listed with an * can also be counted in Area VI and/or Area VII.

### AREA IV  LANGUAGE AND RATIONALITY

<table>
<thead>
<tr>
<th>AA, AS Degree (complete 3 units from A and 1-4 units from B; complete C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. ENGLISH COMPOSITION: ENGL 101A; JOUR 101A</td>
</tr>
<tr>
<td>B. ANALYTICAL THINKING AND ORAL COMMUNICATION: BA 116, 123; CS 102, 104A, 113; ENGL 101C; ENVS 102; MATH 101A, 101B, 101C, 152A &amp; 152B, 153, 155, 156, 159, 163, 166, 167, 181, 188; PHIL 104, 107; SPCH 101, 102, 104, 106</td>
</tr>
</tbody>
</table>

Completion of the RN Program satisfies this requirement.

| C. MATH PROFICIENCY: Placement into MATH 156, 159, 166, 167, 181, 188, 101A via the Ohlone College Accuplacer Test OR complete one course: MATH 152, 152A & 152B, 153, 155, 156, 159, 163 |

### AREA V  PHYSICAL EDUCATION/Wellness

<table>
<thead>
<tr>
<th>AA, AS Degree (complete one of the following options)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. PHYSICAL EDUCATION: Complete any two activity courses ATHL 220-231; HLTH 140, 141; KIN 256; PE 300-397, 393-397; TD 141A, 141B, 142A, 142B, 142C, 143A, 143B, 144A, 144B, 148A2, 148A3; OR</td>
</tr>
<tr>
<td>B. WELLNESS: HLTH 101, 140, 141, 150*, 160; KIN 240, 251, 257, 258; PE 375BS; WS 150*</td>
</tr>
<tr>
<td>C. Complete the PTA Program with PTA 119</td>
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<tr>
<td>D. Present DD214 Form (Military Service) to the Office of Admissions and Records. (See a counselor for more details.)</td>
</tr>
</tbody>
</table>

### AREA VI  INTERCULTURAL/INTERNATIONAL STUDIES

<table>
<thead>
<tr>
<th>AA, AS Degree (complete 3 units)</th>
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</thead>
</table>

Note: Courses used in this area may also be used in one other applicable General Education Area; however, the units will only be counted once. Completion of the RN Program satisfies this requirement.

### AREA VII  INFORMATION COMPETENCY

<table>
<thead>
<tr>
<th>AA, AS Degree (complete one of the following options)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note: Courses completed at other colleges will require a substitution waiver if completed during or after Spring 2012. Complete one course: COMM 100; CS/LS 151; HIST 119A, 119B; LS 101; SPCH 101</td>
</tr>
</tbody>
</table>

Additional information: An associate degree requires a minimum of 60 units. After completing all Major and GE requirements some students may need additional elective units to fulfill this 60 unit requirement. AP (Advanced Placement) exams may be used to satisfy Ohlone College General Education Plan A Requirements (see an Ohlone counselor).

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

Students can use this plan to fulfill lower division GE Requirements for CSU, and Ohlone College Associate in Arts or Science degrees (AA, AS, AA-T, or AS-T).

Please note:
- A letter grade of C or better must be earned in Areas A1, A2, A3, and B4.
- Courses listed in more than one area may only be counted in one area.

#### AREA A
**ENGLISH LANGUAGE, COMMUNICATION AND CRITICAL THINKING** (3 courses)
Complete one course from A1; one course from A2; one course from A3.
All courses must be completed with a grade of C or better.

- **A1** - ORAL COMMUNICATION: **SPCH** 101, 103, 106
- **A2** - WRITTEN COMMUNICATION: **ENGL** 101A
- **A3** - CRITICAL THINKING: **ENGL** 101C; **PHIL** 104, 107; **SPCH** 102, 104, 106

#### AREA B
**SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING** (3 courses)
Complete one course from B1; one course from B2 (at least one of the two courses must include a laboratory); and one course from B4. Lab courses are underlined.

- **B1** PHYSICAL SCIENCE: **ASTR** 101A, 101B, 102; **CHEM** 101A, 101B, 102, 108, 109, 112A, 112B; **CNET** 114; **ENGL** 114; **GEOG** 101; **PHYS** 108, 120, 121, 140, 141, 142
- **B2** LIFE SCIENCE: **ANTH** 101; **BIOL** 101A, 101B, 103A, 103B, 104, 105, 106, 107, 108, 109, 114, 130, 141, 142; **BIOT** 114; **ENVS** 108, 142
- **B3** LABORATORY ACTIVITY: One course from B1 or B2 above must include a lab (lab courses are underlined).
- **B4** MATHEMATICS/QUANTITATIVE REASONING: A grade of C or better is required. **CS** 113; **MATH** 101A, 101B, 101C, 103, 104, 156, 159, 163, 166, 167, 181, 188

#### AREA C
**ARTS AND HUMANITIES** (3 courses)
Complete **ENGL** 101B, one course from C1 (Arts), and one course from C2 (Humanities).

- **C1** ARTS: **ART** 100, 101, 103A, 103B, 131, 161A; **CAOT** 161A; **GA** 161A; **HIST** 107, 141, 142, 143; **IS** 100, 102, 104; **MUS** 100, 101, 102, 104, 110A, 122, 123, 125; **SPCH** 132; **TD** 100, 102, 107, 109, 110, 114, 115A, 120A3, 126, 132, 150, 152, 154, 156, 161, 162, 163, 164

#### AREA D
**SOCIAL SCIENCES** (3 courses)
Complete two courses from D1 (choose option 1 or 2) and one course from D2.
No more than two History courses can be used to fulfill Area D.

**D1** US HISTORY, CONSTITUTION, AND AMERICAN IDEALS:
1. **HIST** 117A and (one course from the following): **HIST** 105, **HIST** 117B, **PSY** 102
2. **PSY** 102 and (one course from the following): **CHS** 102B; **HIST** 102B, **HIST** 114A, **HIST** 114B, **HIST** 115, **HIST** 117A, **HIST** 117B


#### AREA E
**LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT** (1 course)
Complete one course from the following.

- **ANTH** 102; **BIOL** 109; **CFS** 109; **HLTH** 101, 150; **IS** 120; **KIN** 240, 251; **PD** 105; **PSY** 139; **SOC** 101, 105; **WS** 120, 150

**Additional information:**
Completion of CSU GE Plan B is optional for transfer and may not be recommended for all colleges and majors (please see a counselor).

AP (Advanced Placement) exams may be used to satisfy CSU GE Breadth Requirements (see an Ohlone counselor).
IGETC (Intersegmental General Education Transfer Curriculum): Plan C

Students can use this plan to fulfill lower division GE Requirements for CSU, UC, some private/out-of-state universities; and Ohlone College Associate in Arts or Science degrees (AA, AS, AA-T, or AS-T).

Please note:  
- A letter grade of C or better must be earned in each course.  
- Courses listed in more than one area may only be counted in one area.

IGETC is not recommended for certain colleges and majors. Please see a counselor for more details.

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<tr>
<th>Completed</th>
<th>In Progress</th>
<th>Need</th>
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</table>

### AREA 1  
**ENGLISH COMMUNICATION** (2 or 3 courses)  
Complete two courses for UC or three courses for CSU.  
1A **ENGLISH COMPOSITION**: ENGL 101A  
1B **CRITICAL THINKING**: ENGL 101C  
1C **ORAL COMMUNICATION**: SPCH 101 (only required for CSU IGETC)

### AREA 2  
**MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING** (1 course)  
Complete one course from the following.  
**MATH** 101A, 101B, 101C, 103, 104, 156, 159, 166, 167, 188

### AREA 3  
**ARTS AND HUMANITIES** (3 courses)  
Complete three courses; one course from **3A (Arts)**; one course from **3B (Humanities)**; and a third course from **3A (Arts)** or **3B (Humanities)**.  
3A **ARTS**: ART 100, 101, 103A, 103B, 131; **HIST** 141, 142, 143; **IS** 100, 142, 143; **MUS** 100, 101, 102, 104, 110A, 122, 123, 125; **TD** 100, 102, 109  

### AREA 4  
**SOCIAL AND BEHAVIORAL SCIENCES** (3 courses)  
Complete three courses from at least two different disciplines.  
**ANTH** 101, 102, 103, 104, 106; **BRDC** 155; **BA** 102A, 102B; **CHS** 101, 102A, 102B; **COMM** 100; **ENVS** 105; **GEOG** 102, 104, 105; **HIST** 102A, 102B, 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, 108; **SPCH** 105, 108, 122; **WS** 101, 108, 120, 132

### AREA 5  
**PHYSICAL AND BIOLOGICAL SCIENCES** (2 courses)  
Complete one course from **5A and one course from 5B**. One course must include a laboratory and lab courses are underlined.  
5A **PHYSICAL SCIENCE** (One course)  
   Lab: **ASTR** 101A & 102, 101B & 102; **CHEM** 101A, 101B, 102, 109; **GEOG** 101; **GEOL** 101, 102 & 102L, 103 & 103L;  
   **PHYS** 120, 121, 140, 141, 142  
   Non-Lab: **ASTR** 101A, 101B; **CHEM** 108; **GEOL** 102, 103, 104; **PHYS** 108  
5B **BIOLOGICAL SCIENCE** (One course)  
   Lab: **ANTH** 101; **BIOL** 101A, 101B, 103A, 103B, 104, 106, 130, 142; **ENVS** 142  
   Non-Lab: **BIOL** 105, 107, 108, 109, 141; **ENVS** 108

### AREA 6  
**LANGUAGE OTHER THAN ENGLISH** (Required for UC IGETC Certification only)  
Proficiency equivalent to two years of high school study in the same language with a grade of C or better OR take one course below OR see counselor for other options that fulfill this requirement.  

### US HISTORY, CONSTITUTION, AND AMERICAN IDEALS  
Complete Option 1 or 2 below:  
1. **HIST** 117A and one course from the following: **HIST** 105, **HIST** 117B, **PS** 102  
2. **PS** 102 and one course from the following: **CHS** 102B, **HIST** 102B, **HIST** 114A, **HIST** 114B, **HIST** 115, **HIST** 117A, **HIST** 117B

Additional information:  
IGETC may not be advisable for all majors and is not a transfer requirement. See an Ohlone counselor for more information on which CSU, UC, or private/out-of-state universities accept IGETC.  
AP (Advanced Placement) exams may be used to satisfy IGETC Requirements (see an Ohlone counselor).  
Transfer credit may be limited by either the UC or CSU. Visit www.assist.org for specific limitations.
### ACADEMIC PROGRAMS

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<thead>
<tr>
<th>Program</th>
<th>Associate Degree</th>
<th>Certificate of Achievement</th>
<th>Certificate of Accomplishment</th>
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<tbody>
<tr>
<td><strong>A</strong></td>
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<tr>
<td>Accounting</td>
<td>Page 60</td>
<td>Page 60</td>
<td></td>
</tr>
<tr>
<td>Administration of Justice</td>
<td>Page 61</td>
<td>Page 61</td>
<td></td>
</tr>
<tr>
<td>Administrative Assistant with Supervisory Focus</td>
<td>Page 62</td>
<td>Page 62</td>
<td></td>
</tr>
<tr>
<td>American Sign Language and Deaf Studies</td>
<td>Page 62</td>
<td>Page 62</td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td>Page 64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASL-English Interpreter Preparation Program</td>
<td>Page 64</td>
<td>Page 64</td>
<td></td>
</tr>
<tr>
<td>Audio Technician</td>
<td>Page 102</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>B</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ballet Dance Teacher/Choreographer</td>
<td>Page 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td></td>
<td>Page 102</td>
<td></td>
</tr>
<tr>
<td>Biology: General</td>
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<tr>
<td>Biotechnology</td>
<td>Page 65</td>
<td></td>
<td></td>
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<tr>
<td>Biotechnology: Bio-manufacturing</td>
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<td>Page 66</td>
<td></td>
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<tr>
<td>Biotechnology: Biostatistics</td>
<td></td>
<td>Page 66</td>
<td></td>
</tr>
<tr>
<td>Biotechnology: Cell Production/Fermentation</td>
<td></td>
<td>Page 67</td>
<td></td>
</tr>
<tr>
<td>Biotechnology: Quality Control/Research Associate</td>
<td></td>
<td>Page 67</td>
<td></td>
</tr>
<tr>
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<td>Page 68</td>
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### ACADEMIC PROGRAMS

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</table>
Ohlone offers associate degrees that are designed 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 semester units whereas Certificates of Achievement are 18 semester units or more.

Both associate degrees and Certificates of Achievement are approved by Ohlone’s Curriculum Committee, the Ohlone Community College District Board of Trustees, and the Chancellor’s Office of the California Community Colleges. Accordingly, associate degrees and Certificates of Achievement may appear on a student’s transcript.

ACCOUNTING

Associate in Arts in Accounting and Certificate of Achievement in Accounting

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 ASSOCIATE IN ARTS DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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)
STUDENT LEARNING OUTCOMES

1. Apply knowledge of the activities of business and government and of the environments in which they operate.
2. Demonstrate knowledge of financial accounting, including content, concepts, and structure of the various statements, both for internal and external use.
3. Understand the process of identifying, gathering, measuring, summarizing, and analyzing financial data in business organizations, including the use of computer based information.

MAJOR FIELD

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<td>BA-102B</td>
<td>Principles of Economics-Microeconomics</td>
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<td>BA-104</td>
<td>Computer Applications in Accounting</td>
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<td>BA-105</td>
<td>Income Tax Principles</td>
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<td>BA-123</td>
<td>Math for Accounting and Business</td>
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SUPPORTING COURSES

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Total Required Units: 23

STUDENT LEARNING OUTCOMES

1. Examine historical and current events in criminal psychology such as analyzing psychological and sociological theories of killers/offenders and their victims.
2. Examine the role of police within the United States.
3. Apply appropriate investigative and forensic techniques to analyze crime scenes, collect and preserve evidence for laboratory analysis, and maintain and preserve chain of evidence to prepare for testimony and to provide prosecution with evidence to convict.
4. Examine the workings of the criminal justice system by applying key definitions, concepts and principles to law enforcement, courts, and correctional settings.

MAJOR FIELD

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<td>Criminal Law</td>
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MAJOR FIELD ELECTIVES

Complete a minimum of 8 units for Certificate of Achievement. Complete a minimum of 16 units for Associate in Arts degree.

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<td>WEX-195A</td>
<td>Work Experience Education – Vocational</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Total Required Units: 34

ADMINISTRATION OF JUSTICE

Associate in Arts in Administration of Justice

Certificate of Achievement in Administration of Justice

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 ASSOCIATE IN ARTS DEGREE

a) Complete Major Field courses and Major Field Electives with a grade of C or better.
b) Complete a minimum of 16 units of Major Field Electives.
c) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
d) Complete at least 60 degree-applicable units with a 2.0 grade point average.
e) Complete at least 12 units at Ohlone College.

REQUIREMENTS FOR CERTIFICATE OF ACHIEVEMENT

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

(continued on next column)
**ADMINISTRATIVE ASSISTANT WITH SUPERVISORY FOCUS**

Associate in Arts in Administrative Assistant with Supervisory Focus and Certificate of Achievement in Administrative Assistant with Supervisory Focus

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 first level managers. Placement is dependent upon job availability.

**REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE**

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate knowledge of computer office skills such as e-mail, file storage, and file sharing.
3. Demonstrate knowledge of Web searches and other Internet usages.
4. Demonstrate keyboarding skills at a minimum of 60 wpm.
5. Demonstrate knowledge of basic English and math skills.
6. Demonstrate ability to create correspondence at a level requiring no supervision.
7. Show ability to proofread office documents using basic editing skills.
8. Demonstrate knowledge of leadership and supervisory theory.

**MAJOR FIELD**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-101A</td>
<td>Financial Accounting</td>
<td>5</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-101A</td>
<td>Computer Applications I</td>
<td>2</td>
</tr>
<tr>
<td>CAOT-101B</td>
<td>Computer Applications II</td>
<td>2</td>
</tr>
<tr>
<td>CAOT-104</td>
<td>Basic Keyboarding OR</td>
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<tr>
<td>CAOT-110A</td>
<td>Beginning Keyboarding I</td>
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<tr>
<td>MM-105</td>
<td>Web Site Design</td>
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**SUPPORTING COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-123</td>
<td>Math for Accounting and Business</td>
<td>3</td>
</tr>
<tr>
<td>BA/PSY-139</td>
<td>Psychology in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
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<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Major Field Elective</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
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</table>

(continued on next column)

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**RECOMMENDED MAJOR FIELD ELECTIVES**

Complete 3 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</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-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>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
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</tr>
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</table>

**Total Required Units:** 37

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**AMERICAN SIGN LANGUAGE AND DEAF STUDIES**

Associate in Arts in American Sign Language and Deaf Studies and Certificate of Achievement in American Sign Language and Deaf Studies

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 ASSOCIATE IN ARTS DEGREE**

a) Complete Major Field, Major Field Electives, and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

**STUDENT LEARNING OUTCOMES**

1. Employ the knowledge and skills in ASL that will support the undertaking of study and employment in education of the Deaf, interpreting, and in various professional and paraprofessional occupations in which the ability to communicate using American Sign Language is essential.
2. Demonstrate the ability to effectively communicate in ASL with diverse members of the Deaf Community in all types of settings.
3. Acquire and apply their knowledge of the Deaf Community, Deaf Culture, Deaf Education, and all aspects of Deaf Life so that the student will become an effective advocate working with the Deaf to advance understanding and support for Deaf related issues which impact the lives of Deaf children and adults worldwide.

(continued on next page)
These supporting classes are approved California State Education Requirements for the California School for the Deaf.

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

**Child Growth and Development**

Select three units from:
- ECS-301 Childhood Growth and Development 3
- ECS-303 Child, Family, and Community 3
- ECS-306 Guidance and Discipline of Young Children 3
- ECS-316 Children with Special Needs in Programs for Young Children 3
- ECS-327 School Age Child Development 3
- PD-180 Peer Mentoring 2
- PSY-105 Child Development 3
- PSY-106 Adolescent Development 3
- PSY-108 Human Development 3

**Education Techniques**

Select three units from:
- CHS-101 Chicano Culture I 3
- ECS-300 Principles and Practices of Teaching Young Children 3
- ECS-302 Introduction to Curriculum 4
- ECS-321 Supervision in Early Childhood Programs 3
- ECS-328 Curriculum for the School Age Child 3
- EDUC-101 Exploring Education 4
- HIST-114B African American History 1877 to Present 3
- IS-110 Introduction to Ethnic Studies 3
(continued on next column)

**English Composition or Report Writing**

Select three units from:
- ASL-155 ASL Literature (Folklore) 3
- ENGL-101A Reading and Written Composition 4
- ENGL-101B Reading and Composition (Introduction to Literature) 4
- ENGL-101C Critical Thinking and Composition 3

**Health, Science, and Hygiene**

Select three units from:
- BIOL-103A Human Anatomy and Physiology 4
- BIOL-103B Human Anatomy and Physiology 4
- BIOL-104 Basic Human Anatomy and Physiology 4
- HLTH-101 Contemporary Health Issues 3
- HLTH-150 Women’s Health Issues 3
- HLTH-160 Human Sexuality 3
- KIN-251 Fitness for Life 3
- KIN-257 Prevention and Care of Athletic Injuries 4
- KIN-258 Exercise Prescription 3

**Psychology, Sociology, Behavioral Sciences, Handicapping Conditions, Family Life, Social Work, or Rehabilitation**

Select three units from:
- PSY-101 General Psychology 3
- PSY-112 Social Psychology 3
- SOC-101 Introduction to Sociology 3
- SOC-102 Social Problems of a Diverse Society 3

**Recreational Planning and/or Physical Education Methodology for Children**

Select three units from:
- PE-250–PE-379 1-3

Total Required Units: 54-55

Photo courtesy of Don Jedlovec.
ART

Associate in Arts in Art

The Associate in Arts 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 Associate in Arts 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 ASSOCIATE IN ARTS DEGREE

a) Complete the Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Analyze and express conceptual and physical qualities of works of art.
2. Communicate basic objectives of design and/or plan of work of art.
3. Evaluate and discuss various forms of art within a social, cultural, and aesthetic perspective.
4. Create or manufacture finished works of art based on initial designs.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-103A</td>
<td>Survey of World Art History — Prehistoric Through 1300 C.E. OR</td>
<td>4</td>
</tr>
<tr>
<td>ART-103B</td>
<td>Survey of World Art History — 14th Century Through 20th Century</td>
<td>(4)</td>
</tr>
<tr>
<td>ART-104A</td>
<td>2D Design</td>
<td>3</td>
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<tr>
<td>ART-104B</td>
<td>3D Design</td>
<td>3</td>
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<tr>
<td>ART-104C</td>
<td>Color</td>
<td>3</td>
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<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-117A</td>
<td>Museum and Gallery Techniques</td>
<td>2</td>
</tr>
</tbody>
</table>

SUPPORTING COURSES

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</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-106B</td>
<td>Intermediate Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-107A</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-108</td>
<td>Perspective Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-109A</td>
<td>Beginning Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART-111A</td>
<td>Painting — Color and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ART-116A</td>
<td>Basic Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART-121A</td>
<td>Introductory Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART-133A</td>
<td>Black and White Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART-139A</td>
<td>Beginning Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART-150A</td>
<td>Interior Design Concepts</td>
<td>3</td>
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<tr>
<td>ART-160A</td>
<td>Computer Graphics I</td>
<td>4</td>
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<tr>
<td>ART-161A</td>
<td>Digital Graphics I</td>
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</tbody>
</table>

Total Required Units: 26-28

ASL-ENGLISH INTERPRETER PREPARATION PROGRAM

Associate in Arts in ASL-English Interpreter Preparation Program

Certificate of Achievement in ASL-English Interpreter Preparation Program

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 (one year of college-level work) with a cumulative GPA of 2.70 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 Deaf Studies Division by mid-April. The exact deadline is provided online at http://www.ohlone.edu/instr/div_deaf/ipp/.

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

REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE

a) Complete Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. 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.
2. Demonstrate critical thinking skills by assessing potential demands of various interpreting situations and constructing appropriate responses to mitigate those demands; and applying and defending appropriate decision-making skills when ethical dilemmas arise.
3. Perform entry-level Sign Language Interpreting skills in post-secondary educational and/or community settings.

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

(continued on next page)
MAJOR FIELD

INT-106 Discourse Analysis: ASL 3
INT-107 Interpreter Orientation 3
INT-112 Comparative Linguistics: ASL and English 3
INT-115 Interpreting Preparation Skills 2
INT-116 Discourse Analysis: English 3
INT-127 Ethics I 1
INT-145 Practicum: Deaf/Hearing Team Interpreting 4.5
INT-147 Introduction to Interpreting for People Who Are Deaf/Blind 2
INT-153 Interpreting: ASL to English 6
INT-199A Introduction to Multicultural Issues in Interpreting 1
INT-227 Ethics II: Interpreting Ethics and Decision-Making 3
INT-245 Phantom Interpreting 1
INT-253 Interpreting: English to ASL 6
INT-263 Interpreting Across the Language Continuum 4
INT-295 Interpreting Internship 4.5
INT-299 Capstone Course 1

Choose 3.5 units from the following:

INT-199B Introduction to Oral Facilitation .5
INT-199C Introduction to Medical Interpreting 1
INT-199D Introduction to Educational Interpreting K-12 1
INT-199E Introduction to Post-Secondary Interpreting .5
INT-199F Introduction to Social Service and Employment .5
INT-199G Introduction to Telephone and Video Relay Interpreting .5
INT-199H Introduction to Mental Health Interpreting .5
INT-199I Introduction to Deaf/Hearing Team Interpreting .5

Total Required Units: 51.5

BIOLOGY

Associate in Science in Biology

The Associate in Science 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 Associate in Science 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 Associate in Science degree program in Biology meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete the Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate the correct operating procedures in the use of common lab equipment such as compound microscopes, spectrophotometers, pH meter, electrophoresis gel apparatus, micropipetters, and centrifuges.
2. Construct, for analytical purposes, appropriate graphs from raw experimental data.
4. List and briefly explain the main concepts of modern evolutionary theory.

BIOTECHNOLOGY

Associate in Science in Biotechnology

The Associate in Science in Biotechnology is a program designed to train students in the methods and techniques used in biotechnology. 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 pharmomanufacturing positions.

REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete the Biotechnology Core Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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 Biotechnology Core Courses at Ohlone College.

STUDENT LEARNING OUTCOMES

1. Apply industrial standards in recording laboratory procedures and results in a laboratory notebook.
2. Demonstrate the use of common laboratory equipment such as micropipetters, spectrophotometers, electrophoretic equipment, pH meters, thermocyclers, bioreactors, etc.
3. Prepare buffers and other laboratory stock and working solutions to proper specifications.
BIOTECHNOLOGY CORE COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<td>BIOT-105</td>
<td>Introduction to Cell and Molecular Biology</td>
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<tr>
<td>BIOT-110A1</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-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>
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</tr>
<tr>
<td>BIOT-111B</td>
<td>PCR Primer Design and Optimization and Reverse Transcription</td>
<td>1</td>
</tr>
<tr>
<td>BIOT-112</td>
<td>Introduction to Bioinformatics</td>
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<tr>
<td>BIOT-113</td>
<td>GMP/GLP</td>
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</tr>
<tr>
<td>BIOT-115A</td>
<td>Mammalian Cell Culture Techniques</td>
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<td>BIOT-115B</td>
<td>Bioreactor Cell Culture Techniques</td>
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<td>BIOT-117</td>
<td>Immunology</td>
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<td>BIOT-119</td>
<td>Clean Room Operations</td>
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<td>BIOT-121</td>
<td>Biotechnology Careers</td>
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<td>BIOT-123</td>
<td>Writing SOPs</td>
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</tr>
<tr>
<td>BIOT-141</td>
<td>Environmental Biotechnology Research Projects OR</td>
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</tr>
<tr>
<td>BIOT-142</td>
<td>Introduction to Plant Biology OR</td>
<td>(3)</td>
</tr>
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<td>BIOT-143</td>
<td>Introduction to Nanotechnology OR</td>
<td>(3)</td>
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<td>CAOT-148</td>
<td>Computer Applications in Biotechnology</td>
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<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
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<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing</td>
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<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</td>
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Total Required Units: 32.5

MAJOR FIELD

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<td>Introduction to Cell and Molecular Biology</td>
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<td>Introduction to DNA Techniques</td>
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<tr>
<td>BIOT-110A2</td>
<td>PCR I and DNA Sequencing</td>
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<td>BIOT-110A3</td>
<td>Protein Isolation and Assays</td>
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<td>BIOT-113</td>
<td>GMP/GLP</td>
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<tr>
<td>BIOT-114</td>
<td>Introduction to Bioinformatics</td>
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<tr>
<td>BIOT-115A</td>
<td>Mammalian Cell Culture Techniques</td>
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<td>BIOT-115B</td>
<td>Bioreactor Cell Culture Techniques</td>
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<tr>
<td>BIOT-117</td>
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<tr>
<td>CHEM-109</td>
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</table>

Total Required Units: 16

OPTIONAL COURSES (RECOMMENDED)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOT-112</td>
<td>Introduction to Bioinformatics</td>
<td>(2)</td>
</tr>
<tr>
<td>BIOT-114</td>
<td>Introduction to Plant Biology</td>
<td>(3)</td>
</tr>
<tr>
<td>BIOT-117</td>
<td>Immunology</td>
<td>(1)</td>
</tr>
<tr>
<td>BIOT-120A</td>
<td>Introduction to SEM Technology</td>
<td>(.5)</td>
</tr>
<tr>
<td>BIOT-120B</td>
<td>SEM — Biological Applications and Techniques</td>
<td>(.5)</td>
</tr>
<tr>
<td>BIOT-122</td>
<td>Introduction to Nanotechnology</td>
<td>(3)</td>
</tr>
<tr>
<td>BIOT-131</td>
<td>Computing Concepts in Biotechnology</td>
<td>(4)</td>
</tr>
<tr>
<td>BIOT-133</td>
<td>Introduction to SAS Programming</td>
<td>(3)</td>
</tr>
<tr>
<td>BIOT-143</td>
<td>Advanced SAS Programming</td>
<td>(3)</td>
</tr>
<tr>
<td>BIOT-203</td>
<td>Biotechnology Internship</td>
<td>(3)</td>
</tr>
<tr>
<td>CAOT-148</td>
<td>Computer Applications in Biotechnology</td>
<td>(.5)</td>
</tr>
</tbody>
</table>

BIOTECHNOLOGY: BIO-MANUFACTURING

Certificate of Achievement in Biotechnology: Bio-Manufacturing

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.

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.

STUDENT LEARNING OUTCOMES

1. Apply industrial standards in recording laboratory procedures and results in a laboratory notebook.
2. Demonstrate the use of common laboratory equipment such as micropipetters, spectrophotometers, electrophoretic equipment, pH meters, thermocyclers, bioreactors, etc.
3. Prepare buffers and other laboratory stock and working solutions to proper specifications.

(continued on next column)

Did you know???
California community colleges educate 70% of our state’s nurses.
Source: California Community Colleges Chancellor’s Office
STUDENT LEARNING OUTCOMES

1. Apply industrial standards in recording laboratory procedures and results in a laboratory notebook.

2. Demonstrate the use of common laboratory equipment such as micropipetters, spectrophotometers, electrophoretic equipment, pH meters, thermocyclers, bioreactors, etc.

3. Prepare buffers and other laboratory stock and working solutions to proper specifications.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-105</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO-110A1</td>
<td>Introduction to DNA Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BIO-110A2</td>
<td>PCR I and DNA Sequencing</td>
<td>1</td>
</tr>
<tr>
<td>BIO-110A3</td>
<td>Protein Isolation and Assays</td>
<td>1</td>
</tr>
<tr>
<td>BIO-112</td>
<td>Introduction to Bioinformatics</td>
<td>2</td>
</tr>
<tr>
<td>BIO-113</td>
<td>GMP/GLP</td>
<td>1</td>
</tr>
<tr>
<td>BIO-115A</td>
<td>Mammalian Cell Culture Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BIO-115B</td>
<td>Bioreactor Cell Culture Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BIO-119</td>
<td>Clean Room Operations</td>
<td>.5</td>
</tr>
<tr>
<td>BIO-121</td>
<td>Biotechnology Careers</td>
<td>1</td>
</tr>
<tr>
<td>BIO-123</td>
<td>Writing SOPs</td>
<td>.5</td>
</tr>
<tr>
<td>BIO-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>

Total Required Units: 29.5

BIOTECHNOLOGY: CELL PRODUCTION/FERMENTATION

Certificate of Achievement in Biotechnology: Cell Production/Fermentation

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 biomanufacturing and pharmomannufacturing entry-level positions requiring skills in cell culturing and fermentation.

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.

STUDENT LEARNING OUTCOMES

1. Apply industrial standards in recording laboratory procedures and results in a laboratory notebook.

2. Demonstrate the use of common laboratory equipment such as micropipetters, spectrophotometers, electrophoretic equipment, pH meters, thermocyclers, bioreactors, etc.

3. Prepare buffers and other laboratory stock and working solutions to proper specifications.

(continued on next page)
## 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>1</td>
</tr>
<tr>
<td>BIOT-115B</td>
<td>Bioreactor Cell Culture Techniques</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>ENGL-156</td>
<td>Introduction to Report and Technical Writing</td>
<td>3</td>
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</table>

Total Required Units: 21.5

## SUPPORTING COURSE

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

Total Required Units: 31

## BUSINESS

**Associate in Arts in Business**

The Associate in Arts 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 associate degree 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. Graduates 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 in 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 ASSOCIATE IN ARTS DEGREE**

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

b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate understanding of business functions, practices, and related theories and be able to integrate this functional knowledge in order to address business problems.

2. Possess quantitative and technological skills enabling them to analyze and interpret business data and to improve business performance.

3. Demonstrate knowledge of today’s domestic and global business environment (e.g., legal, regulatory, political, cultural, and economic).
### 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>
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<tr>
<td>BA-102B</td>
<td>Principles of Economics-Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Required Units: 16

### SUPPORTING COURSES

Select one course from the courses listed below:

- BA-104 Computer Applications in Accounting 3
- BA-105 Income Tax Principles 4
- BA-115 Career Communication 3
- BA-116 Business English and Communication 4
- BA-123 Math for Accounting and Business 3
- BA-125 Introduction to Business 3
- BA-139 Psychology in the Workplace 3
- BA-141A Business Law 3
- BA-141C An Introduction to International Law 3
- BA-143 Sports Marketing 3
- BA-144 Sports Management 3
- CS-101 Introduction to Computers and Information Technology 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-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
- PHIL-106 Ethics 3

Total Required Units: 19-21

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### BUSINESS ADMINISTRATION

**Associate in Arts in Business Administration**

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

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

**REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE**

a) Complete the Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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)
### MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSM-101</td>
<td>Fundamentals of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>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>
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</tbody>
</table>

### SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>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>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-106</td>
<td>Ethics</td>
<td>3</td>
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<tr>
<td></td>
<td>Major Field Electives</td>
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</table>

### RECOMMENDED MAJOR FIELD ELECTIVES

<table>
<thead>
<tr>
<th>Course</th>
<th>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-102B</td>
<td>Principles of Economics-Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BA-123</td>
<td>Math for Accounting and Business</td>
<td>3</td>
</tr>
<tr>
<td>BA-126</td>
<td>Introduction to Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BA-160A</td>
<td>Computer Graphics I</td>
<td>4</td>
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<tr>
<td>BA-160B</td>
<td>Computer Graphics II</td>
<td>4</td>
</tr>
<tr>
<td>CAOT-101A</td>
<td>Computer Applications I</td>
<td>2</td>
</tr>
<tr>
<td>CAOT-101B</td>
<td>Computer Applications II</td>
<td>2</td>
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<tr>
<td>MM-105</td>
<td>Web Site Design</td>
<td>4</td>
</tr>
<tr>
<td>WEX-195A1</td>
<td>Work Experience Education — Vocational</td>
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</tr>
<tr>
<td>WEX-195A2</td>
<td>Work Experience Education — Vocational</td>
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</tr>
<tr>
<td>WEX-195A3</td>
<td>Work Experience Education — Vocational</td>
<td>3</td>
</tr>
<tr>
<td>WEX-195A4</td>
<td>Work Experience Education — Vocational</td>
<td>4</td>
</tr>
</tbody>
</table>

### CHEMISTRY

#### Associate in Science in Chemistry

The Associate in Science in Chemistry offered by Ohlone College is designed to prepare students for studying Chemistry at most universities. The core courses required in the Associate in Science 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 Associate in Science 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 ASSOCIATE IN SCIENCE DEGREE

1. Apply the major chemical concepts including atomic theory, conservation of mass, reactions, stoichiometry, energy, solutions, materials, acids and bases, electrochemistry and catalysts, including mathematical treatment, in the context of the scientific method.
2. Demonstrate proper safety practices and protocols in the laboratory.

#### MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-101B</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>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</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-103</td>
<td>Introduction to Linear Algebra</td>
<td>(3)</td>
</tr>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>(5)</td>
</tr>
</tbody>
</table>
CISCO NETWORK PROFESSIONAL

Associate in Science in Cisco Network Professional and
Certificate of Achievement in Cisco Network Professional

The Cisco Network Professional program is designed for professionals who work with traditional Cisco technology-based networks in which LAN and WAN switches predominate. They are involved in 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 ASSOCIATE IN SCIENCE DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate confidence to work independently to setup, configure, and maintain a Cisco centric network; stand-alone or network application; and a network system.
2. Demonstrate techniques to troubleshoot situations that impact a Cisco centric network; stand-alone or network application; and a network system.
3. Demonstrate oral and written communication skills.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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-182</td>
<td>Advanced Routing (CCNP ROUTE)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-184</td>
<td>Advanced Switching (CCNP SWITCH)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-186</td>
<td>Troubleshooting IP Networks (CCNP TSHOOT)</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>
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</tbody>
</table>

Total Required Units: 24

SUPPORTING COURSES

Choose 1-4 units from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>WEX-195A1-4</td>
<td>Internship</td>
</tr>
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</table>

Choose 2-4 units from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-120</td>
<td>VMware: Install, Configure, Manage</td>
<td>2</td>
</tr>
<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-158</td>
<td>Wireless Networks</td>
<td>4</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Network Infrastructure</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security</td>
<td>4</td>
</tr>
<tr>
<td>CNET-180</td>
<td>IP Telephony and VoIP Implementation</td>
<td>2</td>
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</table>

Total Required Units: 27-52

COMMUNICATION STUDIES

Associate in Arts in Communication Studies for Transfer (AA-T)

The Speech and Communication Studies Department at Ohlone College offers a wide range of communication studies courses that meet students’ general education requirements, lower division transfer requirements for CSU and UC Communication Studies Departments, requirements for Speech and Communication Studies certificates, and the Associate in Arts in Communication Studies for Transfer. This department strives to help students gain knowledge of theoretical perspectives of communication and learn to speak, think, and write clearly and concisely, critically and creatively. Students study the necessary skills to prepare them for transfer in communication studies or related majors. Finally, the department encourages students to use their communication expertise ethically and in service to the larger community and to enhance their relationships and their own personal growth.

The Student Transfer Achievement Reform Act (Senate Bill 1440, codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts in Communication Studies for Transfer is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

REQUIREMENTS FOR ASSOCIATE IN ARTS FOR TRANSFER DEGREE

a) Complete all Major and Supporting Courses with a grade of C or better.
b) Complete CSU GE (Plan B) or IGETC (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
c) Complete a minimum of 60 CSU-transferable semester units.
d) Complete a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
e) Complete a minimum of 18 semester units in the Communication Studies major.
f) Complete at least 12 units at Ohlone College.

STUDENT LEARNING OUTCOMES

1. Demonstrate the ability to effectively communicate with diverse audiences in multiple contexts to meet the goals of the intended communication.
2. Demonstrate through performance and analysis the importance of both verbal and nonverbal communication.
3. Describe and analyze the symbolic nature of communication and how it creates individual, group, and cultural reality.
4. Identify, evaluate, and utilize evidence to support claims used in presentations and arguments.

MAJOR FIELD

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

Choose two courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-102</td>
<td>Small Group Communication/Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-106</td>
<td>Critical Thinking/Argumentation and Debate</td>
<td>3</td>
</tr>
</tbody>
</table>

(continued on next page)
The Associate in Science 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.

(continued on next column)
COMPUTER SCIENCE

Associate in Science in Computer Science

The Associate in Science in Computer Science offered by Ohlone College is designed to provide 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 ASSOCIATE IN SCIENCE DEGREE

a) Complete the Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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 more Computer Science courses at Ohlone College.

STUDENT LEARNING OUTCOMES

1. Given a specification, design an algorithm and implement the pseudocode to solve the problem.
2. Given a program with logic errors, correct the code by applying debugging and data validation skills.
3. Demonstrate knowledge of fundamental computer science concepts (e.g. hardware, logic, discrete mathematics, software design, networks, and the Internet.)

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-102</td>
<td>Object-Oriented Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-116</td>
<td>Introduction to Assembly Language Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-124</td>
<td>Programming with Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS Electives</td>
<td>Any Computer Science course not listed above</td>
<td>2-4</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-103</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH-163</td>
<td>Discrete Mathematics for Computers</td>
<td>3</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics AND</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism OR</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry AND</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-101B</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Required Units: 42-46

(continued on next column)
MAJOR FIELD

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

Option #1 – Computer Programming (Software Development)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-102*</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-113/MATH-163*</td>
<td>Discrete Mathematics for Computers</td>
<td>3</td>
</tr>
<tr>
<td>CS-116*</td>
<td>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>CS-178</td>
<td>XML</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Major Field Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Required Units: 30

*Note: These Major Field courses and other supporting courses are usually required by most baccalaureate colleges and universities for the computer science major. Consult the specific college’s catalog for details.

MAJOR FIELD ELECTIVES

Courses may not be taken for duplicate credit.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CS-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Required Units: 3</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CS-104A</td>
<td>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-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>From JavaScript to AJAX</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Major Field Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Required Units: 31-32

MAJOR FIELD ELECTIVES

Courses may not be taken for duplicate credit.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CS-149</td>
<td>PERL Programming</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Required Units: 31-32</td>
<td></td>
</tr>
</tbody>
</table>

DESKTOP SUPPORT TECHNICIAN

(A+, NETWORK+, MCP)

Associate in Science in Desktop Support Technician

Certificate of Achievement in Desktop Support Technician

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 ASSOCIATE IN SCIENCE DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate confidence to work independently to setup, configure, and maintain a computer (client or server), stand-alone application, and/or computer system.
2. Demonstrate techniques to troubleshoot situations that impact the operation of a computer (client or server), stand-alone application, and/or computer system.
3. Demonstrate oral and written communication skills.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
<td>4</td>
</tr>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-154</td>
<td>Network Technician Training</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-162</td>
<td>Windows Network Infrastructure Administration</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>

Total Required Units: 23

SUPPORTING COURSES (Minimum six units required)

Choose 1-4 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEX-195A1-4</td>
<td>Internship</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Choose 2-5 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-114</td>
<td>How Technology Works</td>
<td>4</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-158</td>
<td>Wireless Networks</td>
<td>4</td>
</tr>
<tr>
<td>CNET-164</td>
<td>Microsoft Directory Services</td>
<td>2</td>
</tr>
<tr>
<td>CNET-166</td>
<td>Microsoft Server Operating Systems</td>
<td>2</td>
</tr>
<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-104A</td>
<td>Introduction to .NET Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Required Units: 29
EARLY CHILDHOOD STUDIES

Associate in Arts in Early Childhood Studies
and
Certificate of Achievement in Early Childhood Studies

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

REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate understanding and application of Developmentally Appropriate Practices (DAP): Students will demonstrate competence in applying DAP in all areas of an Early Childhood Programs, including communication, interaction, guidance and discipline, planning, observing, and reporting.
2. 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.
3. Illustrate the understanding of the biological processes and physical development of children from prenatal through age eighteen. Recognize and explain the physical, cognitive, social, emotional, and language development in children from prenatal through age eighteen.
4. Observe young children, assess the learning environment, and recognize developmentally appropriate activities in early childhood educational settings. Plan, prepare, set-up, and evaluate developmentally appropriate curriculum activities for young children.
5. Examine the factors affecting child development in family relations. Examine the diversity of family groups, their traditions, and rituals in the United States.
6. Use a variety of observational methods and assessment tools to understand children's development and their behavior. Interpret and apply the information gathered from observations to develop individual curriculum plans and appropriate guidance and environments for young children.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS-300</td>
<td>Principles and Practices of Teaching Young Children</td>
<td>4</td>
</tr>
<tr>
<td>ECS-301</td>
<td>Childhood Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>ECS-302</td>
<td>Introduction to Curriculum</td>
<td>4</td>
</tr>
<tr>
<td>ECS-303</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>ECS-304</td>
<td>Observation and Assessment of Children</td>
<td>4</td>
</tr>
<tr>
<td>ECS-305</td>
<td>Health Safety and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ECS-306</td>
<td>Guidance and Discipline of Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-307A, B, C</td>
<td>Practicum — Field Experience</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>(continued on next column)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Required Units:</td>
<td>34-36</td>
</tr>
</tbody>
</table>

SUPPORTING COURSES

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS-308</td>
<td>Administration of Programs for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-309</td>
<td>Teaching in a Diverse Society</td>
<td>3</td>
</tr>
<tr>
<td>ECS-310</td>
<td>Music and Movement Curriculum for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-311</td>
<td>Art for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>ECS-312</td>
<td>The Development of Literacy in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECS-313</td>
<td>Science and Math Curriculum for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-314</td>
<td>Literature for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>ECS-316</td>
<td>Children with Special Needs in Programs for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-317</td>
<td>Infant and Toddler Development and Care</td>
<td>3</td>
</tr>
<tr>
<td>ECS-320</td>
<td>Introduction to Family Child Care Homes</td>
<td>1</td>
</tr>
<tr>
<td>ECS-321</td>
<td>Supervision in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>ECS-322</td>
<td>Mentoring and Supervision in Early Childhood Programs</td>
<td>2</td>
</tr>
<tr>
<td>ECS-323</td>
<td>Advanced Training in Infant-Toddler Care</td>
<td>3</td>
</tr>
<tr>
<td>ECS-324</td>
<td>Parenting</td>
<td>3</td>
</tr>
<tr>
<td>ECS-327</td>
<td>School Age Child Development</td>
<td>3</td>
</tr>
<tr>
<td>ECS-328</td>
<td>Curriculum for the School Age Child</td>
<td>3</td>
</tr>
<tr>
<td>ECS-330</td>
<td>Second Helping for Family Childcare Providers</td>
<td>2</td>
</tr>
</tbody>
</table>

ECS OPTIONS

Total Required Units: 34-36

EC OPTION S

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

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

Family Child Care

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS-320</td>
<td>Introduction to Family Child Care Homes</td>
<td>1</td>
</tr>
<tr>
<td>ECS-324</td>
<td>Parenting</td>
<td>3</td>
</tr>
<tr>
<td>ECS-330</td>
<td>Second Helping for Family Childcare Providers</td>
<td>2</td>
</tr>
</tbody>
</table>

Infant and Toddler

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS-317</td>
<td>Infant and Toddler Development and Care</td>
<td>3</td>
</tr>
<tr>
<td>ECS-323</td>
<td>Advanced Training in Infant-Toddler Care</td>
<td>3</td>
</tr>
</tbody>
</table>

Administrative (Required for Site Supervisor and Program Directors)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS-308</td>
<td>Administration of Programs for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-321</td>
<td>Supervision in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>ECS-322</td>
<td>Mentoring and Supervision in Early Childhood Programs</td>
<td>2</td>
</tr>
</tbody>
</table>

Family and Community Partnership

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS-309</td>
<td>Teaching in a Diverse Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Creative Activities

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ECS-310</td>
<td>Music and Movement Curriculum for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-311</td>
<td>Art for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>ECS-312</td>
<td>The Development of Literacy in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECS-313</td>
<td>Science and Math Curriculum for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECS-314</td>
<td>Literature for the Young Child</td>
<td>3</td>
</tr>
</tbody>
</table>

(continued on next page)
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

ENGGNGERR NNHEER IINNGG

Engineer in Science in Engineering

The Associate in Science in Engineering offered by Ohlone College is designed to prepare students for studying engineering at most universities. The core courses required in the Associate in Science 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 Associate in Science 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 help students transfer to the university of their choice.

REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete the Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Employ general principles, theories, concepts, and/or formulas in the solution of problems.
2. Conduct engineering lab projects, use laboratory materials properly and safely, carefully note results in an engineering project report, and describe the results clearly for others.
3. 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.
4. Demonstrate the ability to use modern engineering tools necessary for engineering practice.
5. Demonstrate an understanding of the engineering profession.

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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>ENGL-125A</td>
<td>English Literature: From the Middle Ages to the Restoration/18th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-125B</td>
<td>English Literature: From Romanticism to Modernism</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVES**

Select any one of the following courses, for a total of three units. Courses may not be double-counted to apply towards Supporting Courses and Electives requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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-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-108</td>
<td>Writing Short Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-109</td>
<td>The Graphic Novel</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-121</td>
<td>The Mystery: Unlocking Its Secrets</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-122</td>
<td>Environmental Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-125A</td>
<td>English Literature: From the Middle Ages to the Restoration/18th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-125B</td>
<td>English Literature: From Romanticism to Modernism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-127</td>
<td>Autobiography: Writing Journals and Memoirs</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-129</td>
<td>Psychology and Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-130</td>
<td>American Stories: Multicultural Autobiography and Memoir</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-131</td>
<td>Hip Hop/Slam Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-141</td>
<td>Advanced Novel and Short Story Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Required Units:** 20

**RECOMMENDED COURSE**

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

**ENTERTAINMENT DESIGN AND TECHNOLOGY**

Associate in Arts in Entertainment Design and Technology and Certificates of Achievement in Entertainment Design and Technology

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 ASSOCIATE IN ARTS DEGREE**

a) Complete Major Field courses and one of the six Options with a grade of C or better.

b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate a basic knowledge of Technical Theatre, as it relates to sound, stagecraft, and stage lighting and as working knowledge of their chosen area of concentration.

2. Demonstrate a basic understanding of how to creatively express ideas in terms of design and operation of scenery, lighting, and sound as it relates to the entertainment industries of stage, television, and live and recorded events with a working knowledge of their chosen concentration to enter the job market.

3. Demonstrate an understanding of how Entertainment Design is an art as well as a craft that can creatively transform a given space into anything one can imagine and in that regard, have a basic knowledge of how to do that through scenery, lighting, and sound.

**MAJOR FIELD**

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

(continued on next page)

**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. The Ohlones were distinguished by peaceful pursuits, especially in agriculture, and they held profound reverence for the earth, believing it was theirs for living and not for the taking.
OPTION 1: Stage Craft
BRDC-142 Live TV Studio Production OR 3
BRDC-152 Film and Video Production (4)
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
WEX-195A1–A4 Work Experience Education – Vocational 1-4
Welding Competency* 3

OPTION 2: Costuming
ART-106A Descriptive Drawing 3
BRDC-142 Live TV Studio Production OR 3
BRDC-152 Film and Video Production (4)
TD-154 Theatrical Makeup for Stage, TV, and Dance 2
TD-155A Costume Construction I 3
TD-155B Costume Construction II 3
TD-156 Theatrical Costuming 2
TD-161–164 Stagecraft Lab (Theatre, Television, Dance) 1-4
WEX-195A1–A3 Work Experience Education – Vocational 1-3

OPTION 3: Audio Technician
BRDC-132/MUS-113 Studio Recording 3
BRDC-142 Live TV Studio Production OR 3
BRDC-152 Film and Video Production (4)
CS-152 Data Communications 2
MUS-112A Pro Tools 101 3
TD-161–164 Stagecraft Lab (Theatre, Television, Dance) 1-4
TD-176 Intermediate Sound for Stage and TV 3
TD-178 Fundamentals of Rigging 2
WEX-195A1–A3 Work Experience Education – Vocational 1-3

OPTION 4: Live Event Management
BA-109B Computerized Accounting for Small Business 1.5
BSM-101 Fundamentals of Supervision 3
BSM-102 Interpersonal Relations in the Workplace 3
TD-119 Directing for the Stage 4
TD-159 Theatre Management 3
TD-161–164 Stagecraft Lab (Theatre, Television, Dance) 1-4
TD-179 Introduction to Stage Management 3
WEX-195A1–A3 Work Experience Education – Vocational 1-3

OPTION 5: Theatrical and TV Lighting Technician
BRDC-142 Live TV Studio Production OR 3
BRDC-152 Film and Video Production (4)
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
WEX-195A1–A3 Work Experience Education – Vocational 1-3

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-178 Fundamentals of Rigging 2
WEX-195A1–A3 Work Experience Education – Vocational 1-3

ENVIRONMENTAL SCIENCE
Associate in Science in Environmental Science

The Associate in Science in Environmental Science offered by Ohlone College is designed to prepare students for studying Environmental Science at most universities. The core courses in the Associate in Science 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 Associate in Science degree program in Environmental Science meet with an advisor 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)
REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete the Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Recognize the social, economic, and environmental impacts of humans on the earth.
2. Apply an understanding of science and ecological principles to modern life.
3. Describe the effects of current, past, and future energy and resource use, and compare and contrast possible solutions to environmental problems.
4. Evaluate environmental policies, laws, and regulations, their value, implementation, and effects.
5. Consider the inherent environmental, social, and economic outcomes of living sustainably on current and future generations.
6. Gain experience with a variety of environmental field and laboratory techniques that will emphasize different fields of environmental studies.
7. Demonstrate applied environmental science techniques.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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-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>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>ENVS-108</td>
<td>Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENVS-142</td>
<td>Environmental Biology</td>
<td>4</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>
</tr>
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</table>

Total Required Units: 50

RECOMMENDED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-112A</td>
<td>Organic Chemistry</td>
<td>(5)</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry</td>
<td>(5)</td>
</tr>
<tr>
<td>GEOG-122</td>
<td>Environmental GIS</td>
<td>(2)</td>
</tr>
<tr>
<td>GEOG-123</td>
<td>GIS Projects</td>
<td>(1)</td>
</tr>
<tr>
<td>GEOL-101</td>
<td>Introduction to Geology</td>
<td>(4)</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>(5)</td>
</tr>
<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</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>
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</tbody>
</table>

ENVIRONMENTAL STUDIES

Associate in Arts in Environmental Studies

The Associate in Arts in Environmental Studies offered by Ohlone College is designed to prepare students for studying Environmental Studies at most universities. The core courses in the Associate in Arts 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.

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

REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE

a) Complete the Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Recognize the social, economic, and environmental impacts of humans on the earth.
2. Apply an understanding of science and ecological principles to modern life.
3. Describe the effects of current, past, and future energy and resource use, and compare and contrast possible solutions to environmental problems.
4. Evaluate environmental policies, laws, and regulations, their value, implementation, and effects.
5. Consider the inherent environmental, social, and economic outcomes of living sustainably on current and future generations.
6. Gain experience with a variety of environmental field and laboratory techniques that will emphasize different fields of environmental studies.

(continued on next page)
MAJOR FIELD

BA-102B Principles of Economics-Microeconomics 3
CHEM-102 Preparation for General Chemistry 4
ENVS-101 Natural Resource Management 3
ENVS-102 Environmental Law and Regulations 3
ENVS-103 The Environment and Human Health 3
ENVS-108 Human Ecology 3
ENVS-142 Environmental Ecology 4
GEOG-101 Physical Geography 4
GEOG-102 Cultural Geography OR 3
GEOG-105 California Geography OR (3)
ANTH-102 Cultural Anthropology (3)
GEOG-121 Introduction to Geographic Information Systems (GIS) 2
GEOG-122 Environmental GIS 2
GEOG-123 GIS Projects 1
MATH-159 Introduction to Statistics 5
WEX-195A1–A4 Occupational Work Experience Education 1-4

Total Required Units: 41-44

RECOMMENDED COURSES

BIOL-101A Principles of Biology — Molecular and Cellular (5)
BIOL-101B Principles of Biology — Organisms and Systems (5)
CHEM-101A General Chemistry (5)
CHEM-112A Organic Chemistry (5)
CHEM-112B Organic Chemistry (5)
GEOL-101 Introduction to Geology (4)
PHYS-120 Introduction to Physics I (4)
PHYS-121 Introduction to Physics II (4)

FINE ARTS

Associate in Arts in Fine Arts

The Associate in Arts degree 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. 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 in 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 ASSOCIATE IN ARTS 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 either of the remaining concentrations.
c) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the two dimensional and three dimensional design concepts (i.e. line, shape and form, color, value, scale, perspective) presented in class lectures.
2. Describe works of art and period styles with vocabulary used specifically for the study of art history.
3. Demonstrate an ability to appraise and evaluate the development of Western music based on its relevance to musical evolution in the rest of the world.
4. Demonstrate the ability to comprehend and integrate the language of written, aural, and conceptual music.
5. Define and discuss the various performance and design elements of live theatre and dance performances.
6. Evaluate and discuss the live performance experience within a social, cultural, and aesthetic perspective.

REQUIRED DEGREE COURSES

Art Concentration

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

ART/IS/TD-100 Survey of the Arts 3
ART-101 Art: An Introduction 3
ART-103A Survey of World Art History — Prehistoric Through 1300 C.E. 4
ART-103B Survey of World Art History — 14th Century Through 20th Century 4
ART-104A 2D Design 3
ART-104B 3D Design 3
ART-104C Color 3
ART-106A Descriptive Drawing 3
ART-106B Intermediate Descriptive Drawing 3
ART-107A Life Drawing 3
ART-107B Life Drawing 3
ART-108 Perspective Drawing 3
ART-111A Painting — Color and Composition 3
ART-111B Painting 3
ART-116A Basic Sculpture 3
ART-116B Advanced Sculpture 3
ART-121A Introductory Ceramics I 3
ART-121B Introductory Ceramics II 3
ART-133A Black and White Photography 3
ART-133B Intermediate Black and White Photography 3
ART-133C Advanced Black and White Photography 3
ART-139A Beginning Digital Photography 3
ART-139B Intermediate Digital Photography 3
ART-151 Visualization and Presentation 3
ART-156 Architectural Modelmaking for Interior Design 3
ART-161A Digital Graphics I 2
ART-161B Digital Graphics II 2

(continued on next page)
Music Concentration

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART/15/MUS/100</td>
<td>Survey of the Arts</td>
<td>3</td>
</tr>
<tr>
<td>MUS-101</td>
<td>Music Appreciation: Western Classical Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS-102</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>MUS-103</td>
<td>Fundamentals of Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS-104</td>
<td>Music of World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUS-108</td>
<td>Songwriting</td>
<td>2</td>
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<tr>
<td>MUS-110A</td>
<td>Music Theory and Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110B</td>
<td>Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110C</td>
<td>Advanced Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-110D</td>
<td>Advanced Harmony</td>
<td>3</td>
</tr>
<tr>
<td>MUS-111A</td>
<td>Musicianship I</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111B</td>
<td>Musicianship II</td>
<td>1</td>
</tr>
<tr>
<td>MUS-111C</td>
<td>Musicianship III</td>
<td>1</td>
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<tr>
<td>MUS-111D</td>
<td>Musicianship IV</td>
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<tr>
<td>MUS-121</td>
<td>The History of Jazz</td>
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<tr>
<td>MUS-122</td>
<td>A History of Early Rock and Roll:</td>
<td></td>
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<tr>
<td></td>
<td>Music and Culture of the 1950’s</td>
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<tr>
<td>MUS-123</td>
<td>History of Rock and Roll: Music and Culture of the</td>
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<tr>
<td></td>
<td>1960’s</td>
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<td>MUS-125</td>
<td>History of Rock and Roll: Music and Culture Since</td>
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<td></td>
<td>1970</td>
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<tr>
<td>MUS-160A</td>
<td>Beginning Class Piano</td>
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<tr>
<td>MUS-160B</td>
<td>Class Piano</td>
<td>1</td>
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<tr>
<td>MUS-160C</td>
<td>Class Piano</td>
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<tr>
<td>MUS-160D</td>
<td>Class Piano</td>
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</tr>
</tbody>
</table>

Theatre and Dance Concentration

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART/15/MUS/100</td>
<td>Survey of the Arts</td>
<td>3</td>
</tr>
<tr>
<td>TD-102</td>
<td>Introduction to Theatre Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>TD-107</td>
<td>History of Film</td>
<td>3</td>
</tr>
<tr>
<td>TD-109</td>
<td>Theatre for Today</td>
<td>3</td>
</tr>
<tr>
<td>TD-110</td>
<td>Introduction to Acting</td>
<td>4</td>
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<tr>
<td>TD-112</td>
<td>Acting Styles – Classical</td>
<td>4</td>
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<tr>
<td>TD-130</td>
<td>Oral Communication of Literature</td>
<td>3</td>
</tr>
<tr>
<td>TD-141A</td>
<td>Introduction to Ballet</td>
<td>2</td>
</tr>
<tr>
<td>TD-141B</td>
<td>Intermediate Ballet</td>
<td>2</td>
</tr>
<tr>
<td>TD-142A</td>
<td>Introduction to Jazz Dance</td>
<td>2</td>
</tr>
<tr>
<td>TD-142B</td>
<td>Intermediate Jazz Dance</td>
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</tr>
<tr>
<td>TD-142C</td>
<td>Advanced Jazz Dance</td>
<td>2</td>
</tr>
<tr>
<td>TD-143A</td>
<td>Introduction to Tap</td>
<td>2</td>
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<tr>
<td>TD-143B</td>
<td>Intermediate Tap</td>
<td>2</td>
</tr>
<tr>
<td>TD-143C</td>
<td>Advanced Tap Dance</td>
<td>2</td>
</tr>
<tr>
<td>TD-144A</td>
<td>Introduction to Modern Dance</td>
<td>2</td>
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<tr>
<td>TD-144B</td>
<td>Intermediate Contemporary Dance</td>
<td>2</td>
</tr>
<tr>
<td>TD-150</td>
<td>Technical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TD-155A</td>
<td>Costume Construction I</td>
<td>3</td>
</tr>
<tr>
<td>TD-155B</td>
<td>Costume Construction II</td>
<td>3</td>
</tr>
<tr>
<td>TD-156</td>
<td>Theatrical Costuming</td>
<td>2</td>
</tr>
<tr>
<td>TD-159</td>
<td>Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>TD-161</td>
<td>Stagecraft Lab</td>
<td>1</td>
</tr>
<tr>
<td>TD-162</td>
<td>Stagecraft Lab</td>
<td>2</td>
</tr>
<tr>
<td>TD-163</td>
<td>Stagecraft Lab</td>
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<tr>
<td>TD-164</td>
<td>Stagecraft Lab</td>
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</tr>
</tbody>
</table>

Total Required Units: 20

GEOLOGY

Associate in Science in Geology

The Associate in Science in Geology offered by Ohlone College is designed to prepare students for studying Geology at most universities. The core courses required in the Associate in Science 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 Associate in Science 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 ASSOCIATE IN SCIENCE DEGREE

a) Complete the Major Field courses with a grade of C or better.
   b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. 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.
2. 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.
3. Demonstrate an understanding of the geologic time scale and methods of measuring geologic time.
4. Identify and classify the common earth materials, such as most common minerals, rocks, and fossils in the lab and in the field and their basic relationship to common natural resources.
5. List, explain, and evaluate global and local (county-wide) geological hazards such as earthquakes, volcanoes, landslides, and seismic sea waves in terms of appropriate geological processes and the theory of plate tectonics.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry</td>
<td>5</td>
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<tr>
<td>CHEM-101B</td>
<td>General Chemistry</td>
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<tr>
<td>GEO1-101</td>
<td>Introduction to Geology</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>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>

(continued on next page)
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 Earth History and 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)

Total Required Units: 41

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)

Total Required Units: 35-37

HUMAN DEVELOPMENT STUDIES

Associate in Arts in Human Development Studies

The Associate in Arts in Human Development Studies offered by Ohlone College is designed to prepare students for studying Anthropology, Environmental Studies, Psychology, Sociology, and other related subjects at most colleges and universities. While the core courses required in the Associate in Arts in Human Development Studies will fulfill the lower division major requirements at most universities, students are advised to meet with academic counselors to assess the course requirements for specific universities. For example, some universities will focus on Social Science or Social Studies as a concentration. This program will enable students to develop a strong foundation in life and social sciences while connected to other areas.

The Associate in Arts in Human Development prepares students for a baccalaureate major in Human Development, Sociology, Psychology, or Anthropology. By fulfilling many of the lower division major requirements at the CSU and UC campuses, thisprogram will enhance student awareness in ecological, historical, political, social, service/community learning issues as well as facilitate successful student transfer. The goal is also to excite, ignite, and inspire students to learn and serve their respective communities.

REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE

a) Complete the Required Degree Courses with a grade of C or better.
b) Complete a minimum of twenty units selected from the four areas below.
c) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
d) Complete at least 60 degree-applicable units with a 2.0 grade point average.
e) Complete at least 12 units at Ohlone College.

REQUIREMENTS FOR CERTIFICATE OF ACHIEVEMENT

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

STUDENT LEARNING OUTCOMES

1. Employ skills and process required for working in both traditional graphics arts and digital graphics arts.
2. Demonstrate a variety of fundamental graphic imaging and sketching techniques.
3. Utilize problem solving techniques in developing creative graphic designs.
4. Prepare a professional quality graphic art presentation.
5. Deliver a verbal presentation of prepared graphic art solutions to a group.
6. Produce a high quality student portfolio of graphic arts projects.
7. Demonstrate personal growth as an artist using graphics arts.

(continued on next column)
STUDENT LEARNING OUTCOMES

1. Demonstrate the social, economic, and psychological impacts of human beings in their various environments.
2. Apply an understanding of social and cultural concepts and principles to modern life so they may critically analyze and understand information affecting human development.
3. Describe the issues of current, past, and future development of the human condition and compare and contrast possible solutions to environmental, cultural, and evolutionary developments.
4. Evaluate policies, laws, and regulations and compare their value, implementation, and effects to social work and life in general.
5. Consider the inherent social and economic outcomes of living altruistically in environmentally sustainable areas for current and future generations.

Choose one course from Anthropology, History, Psychology, or Sociology:

<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>
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<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CHS-102A</td>
<td>Chicana/o History I</td>
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</tr>
<tr>
<td>CHS-102B</td>
<td>Chicana/o History II</td>
<td>3</td>
</tr>
<tr>
<td>HIST-102A</td>
<td>Chicana/o History I</td>
<td>3</td>
</tr>
<tr>
<td>HIST-102B</td>
<td>Chicana/o History II</td>
<td>3</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-105</td>
<td>History of California</td>
<td>3</td>
</tr>
<tr>
<td>HIST-114A</td>
<td>African American History 1619-1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST-114B</td>
<td>African American History 1877 to Present</td>
<td>3</td>
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<tr>
<td>HIST-115</td>
<td>Asian-American History</td>
<td>3</td>
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<tr>
<td>HIST-117A</td>
<td>History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST-117B</td>
<td>History of the United States</td>
<td>3</td>
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<tr>
<td>PS-102</td>
<td>American Government</td>
<td>3</td>
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<tr>
<td>PSY-101</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>PSY-102</td>
<td>Introduction to Experimental Psychology</td>
<td>3</td>
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<tr>
<td>PSY-105</td>
<td>Child Development</td>
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<td>PSY-106</td>
<td>Adolescent Development</td>
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<td>PSY-108</td>
<td>Human Development</td>
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<td>PSY-112</td>
<td>Social Psychology</td>
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<td>PSY-115</td>
<td>Abnormal Psychology</td>
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<td>PSY-139</td>
<td>Psychology in the Workplace</td>
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<tr>
<td>SOC-101</td>
<td>Introduction to Sociology</td>
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<tr>
<td>SOC-102</td>
<td>Social Problems of a Diverse Society</td>
<td>3</td>
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<tr>
<td>SOC-105</td>
<td>Marriage and Family</td>
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<tr>
<td>SOC-106</td>
<td>Chicano Culture I</td>
<td>3</td>
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</tbody>
</table>

Choose one course from Biology, Environmental Studies, Geography, or Geology:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL-105</td>
<td>Heredity, Evolution, and Society</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-107</td>
<td>Microbiology and Infectious Diseases</td>
<td>3</td>
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<tr>
<td>BIOL-109</td>
<td>Biology of Sexual Reproduction</td>
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<td>BIOL-130</td>
<td>Introduction to Biology</td>
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<tr>
<td>ENVS-102</td>
<td>Environmental Law and Regulations</td>
<td>3</td>
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<tr>
<td>ENVS-103</td>
<td>The Environment and Human Health</td>
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<td>ENVS-108</td>
<td>Human Ecology</td>
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<td>ENVS-142</td>
<td>Environmental Biology</td>
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<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
<td>4</td>
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<tr>
<td>GEOG-102</td>
<td>Cultural Geography</td>
<td>3</td>
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<tr>
<td>GEOG-104</td>
<td>The World’s Nations</td>
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<td>GEOG-105</td>
<td>California Geography</td>
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<td>GEOL-101</td>
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Choose one course from Speech and Communication Studies:

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<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
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</tr>
<tr>
<td>SPCH-102</td>
<td>Small Group Communication/Critical Thinking</td>
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<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>
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<tr>
<td>SPCH-105</td>
<td>Intercultural Communication</td>
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<tr>
<td>SPCH-106</td>
<td>Critical Thinking/Argumentation and Debate</td>
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<tr>
<td>SPCH-107</td>
<td>Leadership Communication</td>
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Choose 9-11 units from any remaining course listed in sections 1-3 or listed below:

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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-102B</td>
<td>Principles of Economics-Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BIOT-100</td>
<td>Biotechnology and Society</td>
<td>3</td>
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<tr>
<td>BIOT-102</td>
<td>Chemical Safety and Hygiene</td>
<td>1</td>
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<tr>
<td>BRDC-155</td>
<td>Mass Media and Society</td>
<td>3</td>
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<tr>
<td>CFS-109</td>
<td>Nutrition</td>
<td>3</td>
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<tr>
<td>CHEM-108</td>
<td>Survey of Chemistry</td>
<td>3</td>
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<tr>
<td>CHS-109</td>
<td>Barrio Fieldwork</td>
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<tr>
<td>CNET-114</td>
<td>How Technology Works</td>
<td>4</td>
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<tr>
<td>CS-101</td>
<td>Introduction to Computers and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ECS-301</td>
<td>Childhood Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>ECS-303</td>
<td>Child, Family, and Community</td>
<td>3</td>
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<tr>
<td>ECS-305</td>
<td>Health Safety and Nutrition</td>
<td>3</td>
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<tr>
<td>HLTH-101</td>
<td>Contemporary Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>HLTH-150</td>
<td>Women’s Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>IS-110</td>
<td>Introduction to Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>KIN-240</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN-251</td>
<td>Fitness for Life</td>
<td>3</td>
</tr>
<tr>
<td>MATH-156</td>
<td>Math for Liberal Arts</td>
<td>3</td>
</tr>
<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</td>
<td>5</td>
</tr>
<tr>
<td>MATH-166</td>
<td>Finite Mathematics</td>
<td>4</td>
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<td>MATH-181</td>
<td>Trigonometry</td>
<td>3</td>
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<tr>
<td>MUS-104</td>
<td>Music of World Cultures</td>
<td>3</td>
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<td>PD-105</td>
<td>College Success</td>
<td>3</td>
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<tr>
<td>PD-180</td>
<td>Peer Mentoring</td>
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<tr>
<td>TD-102</td>
<td>Introduction to Theatre Appreciation</td>
<td>3</td>
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<tr>
<td>TD-109</td>
<td>Theatre for Today</td>
<td>3</td>
</tr>
<tr>
<td>TD-114</td>
<td>Acting for the Camera</td>
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<tr>
<td>WEX-19S1-A4</td>
<td>Occupational Work Experience Education</td>
<td>1-4</td>
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<tr>
<td>WS-120</td>
<td>Women of the Western World</td>
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Total Required Units: 20
INTERIOR DESIGN
Associate in Arts in Interior Design
and
Certificate of Achievement in Interior Design

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 ASSOCIATE IN ARTS DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Identify, analyze, and evaluate design criteria and synthesize appropriate and creative design solutions.
2. Develop graphic, written, and verbal communication skills to illustrate design ideas and processes.

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 AWD (1)
ID/ART-159B Applied Design: Color for the Home (1)
ID/ART-155A Architectual 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: 45

JOURNALISM
Associate in Arts in Journalism
and
Certificate of Achievement in Journalism

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 college community.

REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE

a) Complete Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Write a news or feature story or photograph for publication.
2. Arrange and conduct interviews with sources.
3. Understand the role of journalism in our form of democracy.
4. Understand and apply ethical journalism.
5. Analyze Internet journalism sites and evaluate them for content.
6. Identify sources for feature and news stories.

MAJOR FIELD

ART-133A Black and White Photography OR 3
JOUR-175 Magazine Writing and Editing Staff (3)
BA-125 Introduction to Business 3
JOUR-101A Newswriting 3
JOUR/BRDC-155 Mass Media and Society 3
JOUR-172 Newspaper Writing and Editing Staff (2 semesters) OR 6
JOUR-178 Advertising Staff (2 semesters) OR (6)
JOUR-148 Photography/Graphic Arts Newspaper Staff (2 semesters) (6)
MM-105 Web Site Design 4

Total Required Units: 22

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opportunities in the field are in the areas of coaching, personal or group training, fitness instruction, fitness specialists, multiple allied health care programs offer students an opportunity to enrich their education with emphasis on improved individual physical well-being and prepares students for transfer to California State University (CSU) campus for any community college student in California Education Code sections 66746-66749) guarantees admission to the CSU system of the associate degrees traditionally offered at a California community college. CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be transferable course work with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Kinesiology is the discipline or body of knowledge that studies physical activity through performance, scholarly analysis, and professional practice. This program offers students an opportunity to enrich their education with emphasis on improved individual physical well-being and prepares students for transfer to bachelor’s degree programs in Kinesiology and related disciplines. Students may obtain an AA-T in Kinesiology and optimize preparation for advanced degrees in Kinesiology at baccalaureate institutions. Typical employment opportunities in the field are in the areas of coaching, personal or group training, fitness instruction, fitness specialists, multiple allied health care professions, recreation, as well as managerial positions in athletics and recreation centers.

(continued on next column)
**KINESIOLOGY: ATHLETIC TRAINING**

Associate in Science in Kinesiology: Athletic Training

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

**REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE**

a) Complete the Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

**STUDENT LEARNING OUTCOMES**

1. Recognize the diverse aspects of athletic training and related programs (employment settings, educational preparation/programs, certification, continuing education requirements, professional development and responsibilities).
2. Demonstrate knowledge and skill relative to activation and implementation of the college emergency action plan including primary and secondary surveys of an injured individual and administration of emergency care procedures (first aid, control of bleeding, wound care, fracture/dislocation packaging, blood-borne pathogen protection, CPR/AED).
3. Administer basic therapeutic modalities under the supervision of a staff athletic trainer, including thermotherapy, cryotherapy, ultrasound, and electrical stimulation techniques.
4. Identify introductory elements of therapeutic exercise and rehabilitation, including resistance exercise, flexibility and stretching, proprioceptive exercise, and cardiorespiratory endurance applications.
5. Explain and identify techniques and items associated with injury recognition, evaluation and assessment, including taking an appropriate injury history. Demonstrate the ability to identify prominent anatomical landmarks via palpation and assess range of motion of the foot, ankle, knee, wrist/hand/thumb, elbow, shoulder, and spine.
6. Perform basic athletic taping and wrapping techniques for injury prevention and management. Identify appropriate padding devices and apply as indicated for protection/prevention of injury.

**MAJOR FIELD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-103A</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-103B</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-130</td>
<td>Introduction to Biology</td>
<td>4</td>
</tr>
<tr>
<td>CFS-109</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>HLTH-101</td>
<td>Contemporary Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>KIN-240</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN-257</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>4</td>
</tr>
<tr>
<td>KIN-258</td>
<td>Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KIN-381</td>
<td>Clinical Experiences in Athletic Training I</td>
<td>1</td>
</tr>
<tr>
<td>KIN-382</td>
<td>Clinical Experiences in Athletic Training II</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Required Units: 35

**KINESIOLOGY: FITNESS PROFESSIONAL**

Certificate of Achievement in Kinesiology: Fitness Professional

The Certificate of Achievement in Kinesiology: Fitness Professional prepares students to pursue careers in a variety of health science professions including but not limited to personal training, physical therapy, exercise physiology, exercise biology, fitness instruction, physical education, coaching, athletics, and more. The courses required in the Certificate of Achievement will fulfill many of the course requirements for the Associate in Arts in Kinesiology for Transfer. Students are advised to meet with their counselor to assess the course requirements for specific institutions. This program will enable students to build a strong foundation in exercise science and kinesiology which will enhance their success in obtaining entry-level jobs in the fitness industry.

**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.
d) Provide proof of valid First Aid and CPR/AED certification.

**STUDENT LEARNING OUTCOMES**

1. Administer assessment techniques to gather baseline data with respect to cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition.
2. Analyze the basic structure of the cardiorespiratory and musculoskeletal systems and how they respond to fitness training.
3. Design an appropriate individual fitness plan considering client health history, goals, and abilities.
4. Appreciate the value and importance of regular fitness activity in decreasing the risk factors associated with chronic diseases.

**MAJOR FIELD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-130</td>
<td>Introduction to Biology OR</td>
<td>4</td>
</tr>
<tr>
<td>HLTH-101</td>
<td>Contemporary Health Issues OR</td>
<td>(3)</td>
</tr>
<tr>
<td>KIN-251</td>
<td>Fitness for Life</td>
<td>3</td>
</tr>
<tr>
<td>CFS-109</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KIN-240</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN-257</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>4</td>
</tr>
<tr>
<td>KIN-258</td>
<td>Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>WEX-195A2</td>
<td>Occupational Work Experience Education</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Required Units: 18-19
The Associate in Arts 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 in Arts 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 ASSOCIATE IN ARTS DEGREE**

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

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

c) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

**STUDENT LEARNING OUTCOMES**

1. Enrich and deepen self-knowledge by exploring different academic experiences.

2. Articulate and understand their experiences through effective writing, reading, speaking, and various modes of artistic expression.

3. Demonstrate fundamental knowledge and basic skills appropriate to their personal and professional goals in their chosen area of specialization.

**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 —</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Prehistoric Through 1500 C.E.</td>
<td></td>
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<tr>
<td>ART-103B</td>
<td>Survey of World Art History —</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>14th Century Through 20th Century</td>
<td></td>
</tr>
<tr>
<td>CHS-102A</td>
<td>Chicana/o History I</td>
<td>3</td>
</tr>
<tr>
<td>CHS-102B</td>
<td>Chicana/o History II</td>
<td>3</td>
</tr>
<tr>
<td>HIST-102A</td>
<td>Chicana/o History I</td>
<td>3</td>
</tr>
<tr>
<td>HIST-102B</td>
<td>Chicana/o History II</td>
<td>3</td>
</tr>
<tr>
<td>HIST-104A</td>
<td>Western Civilization with a World Perspective Unt</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>il 1600</td>
<td></td>
</tr>
<tr>
<td>HIST-104B</td>
<td>Western Civilization with a World Perspective Fr</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>om 1600</td>
<td></td>
</tr>
<tr>
<td>HIST-107</td>
<td>History of Film</td>
<td>3</td>
</tr>
<tr>
<td>HIST-141</td>
<td>A History of Early Rock and Roll:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Music and Culture of the 1950’s</td>
<td></td>
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<tr>
<td>HIST-142</td>
<td>History of Rock and Roll: Music and Culture of th</td>
<td>3</td>
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<tr>
<td></td>
<td>e 1960’s</td>
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</tr>
<tr>
<td>HIST-143</td>
<td>History of Rock and Roll: Music and Culture Since</td>
<td>3</td>
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<tr>
<td></td>
<td>1970</td>
<td></td>
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<tr>
<td>PHIL-100</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<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>
</tr>
<tr>
<td>PHIL-104</td>
<td>Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-106</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-107</td>
<td>Practical Reasoning</td>
<td>3</td>
</tr>
<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>
<td>3</td>
</tr>
<tr>
<td>PHIL-112</td>
<td>Introduction to Western Religions</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-114</td>
<td>Introduction to Islam</td>
<td>3</td>
</tr>
</tbody>
</table>

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-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>Introduction to Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-101A</td>
<td>News Writing</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>Small Group Communication/Critical Thinking</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 Communication 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

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MATHEMATICS

Associate in Science in Mathematics for Transfer (AS-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Science in Mathematics for Transfer is intended for students who plan to complete a bachelor’s degree as a math major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students will learn the basic mathematical theory which is needed to study advanced math topics at a baccalaureate university.

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Mathematics is a traditional program of university study, with a heritage dating back centuries. In addition to being an academic program worthy of study for its own merits, a degree in mathematics allows a student to enter the workforce in a broad range of areas, including finance, data analysis, and teaching. A degree in mathematics also provides the background for students to pursue graduate programs in many areas such as engineering, law, medicine, and business. A degree in mathematics is often considered as a strong indication that a student possesses good critical thinking skills, the ability to process complicated ideas, and the ability to both follow and create logical processes.

In order to earn the Associate in Science in Mathematics for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

REQUIREMENTS FOR ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE

a) Complete all Major and Supporting Courses with a grade of C or better.
b) Complete CSU GE (Plan B) or IGETC (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
c) Complete a minimum of 60 CSU-transferable semester units.
d) Complete a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
e) Complete a minimum of 21 semester units in the Mathematics major.
f) Complete at least 12 units at Ohlone College.

STUDENT LEARNING OUTCOMES

1. Learn the foundation mathematics necessary for further studies in engineering, mathematics, and science.
2. Demonstrate proficiency at problem solving techniques.
3. Demonstrate a rudimentary level of knowledge for the construction of formal proofs.
4. Apply their knowledge of problem solving techniques towards the solution of problems in engineering and science.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</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></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Group A

Choose a minimum of six units from Group A and Group B, with at least three units from Group A.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</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>
<tr>
<td></td>
<td></td>
<td>3-5</td>
</tr>
</tbody>
</table>

Group B

Choose a minimum of six units from Group A and Group B, with at least three units from Group A.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-102</td>
<td>Introduction to Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>MATH-111</td>
<td>Introduction to Matlab</td>
<td>3</td>
</tr>
<tr>
<td>MATH-163</td>
<td>Discrete Mathematics for Computers</td>
<td>3</td>
</tr>
<tr>
<td>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3-4</td>
</tr>
</tbody>
</table>

Total Required Units: 21-24

MICROSOFT SYSTEMS ADMINISTRATOR (NETWORK+, MCP, MCSE)

Associate in Science in Microsoft Systems Administrator and Certificate of Achievement in Microsoft Systems Administrator

Students who complete this program learn the skills and the general knowledge of Microsoft 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 Microsoft Systems Administration.

REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate confidence to work independently to setup, configure, and maintain a Microsoft computer (client or server); stand-alone or network application; and/or Microsoft server system.
2. Demonstrate techniques to troubleshoot situations that impact the operation of a Microsoft computer (client or server); stand-alone or network application; and/or Microsoft server system.
3. Demonstrate oral and written communication skills.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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-162</td>
<td>Windows Network Infrastructure Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-164</td>
<td>Microsoft Directory Services</td>
<td>2</td>
</tr>
<tr>
<td>CNET-166</td>
<td>Microsoft Server Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-166A</td>
<td>Developing Windows Server</td>
<td>2</td>
</tr>
<tr>
<td>CNET-166B</td>
<td>Configuring and Troubleshooting</td>
<td>2</td>
</tr>
<tr>
<td>CNET-166C</td>
<td>Internet Information Services</td>
<td>2</td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Administering Microsoft Exchange Server 2010 OR</td>
<td>2</td>
</tr>
<tr>
<td>CNET-168A</td>
<td>Maintaining a Microsoft SQL Server 2008 Database</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>

23
MULTIMEDIA
Associate in Arts in Multimedia
and
Certificate of Achievement in Multimedia

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 ASSOCIATE IN ARTS DEGREE
a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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) Maintain a 2.0 grade point average in Major Field courses.

STUDENT LEARNING OUTCOMES
1. Use technical skills and professional workmanship to demonstrate proficiency using multimedia software.
2. Use conceptual skills by innovating, brainstorming, sketching, problem-solving, building prototypes and scenarios, constructing narratives.
3. Use visual communication by demonstrating the ability to design projects that communicate specific ideas and illustrate concepts of design.
4. Exhibit professional behavior and work ethics.
5. Express recognition of the diverse cultural contributions to art and design.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM-102A</td>
<td>Introduction to Multimedia</td>
<td>3</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 Web and DVD</td>
<td>4</td>
</tr>
<tr>
<td>MM-160</td>
<td>Multimedia Portfolio Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>14</td>
</tr>
</tbody>
</table>

Graphics/Art Area

Choose 3-4 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-139A</td>
<td>Beginning Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>GA-109A</td>
<td>Beginning Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>GA-160A</td>
<td>Computer Graphics I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>3-4</td>
</tr>
</tbody>
</table>

(continued on next column)
MAJOR FIELD

MUS-102  Music Appreciation  3
MUS-104  Music of World Cultures  3
MUS-110A  Music Theory and Harmony  3
MUS-110B  Harmony  3
MUS-110C  Advanced Harmony  3
MUS-110D  Advanced Harmony  3
MUS-111A  Musicianship I  1
MUS-111B  Musicianship II  1
MUS-111C  Musicianship III  1
MUS-111D  Musicianship IV  1
MUS-160A  Beginning Class Piano  1
MUS-166A  Applied Music  1

Complete one of the following courses:
MUS-101  Music Appreciation — Western Classical Music  3
MUS-121  The History of Jazz  (3)
MUS-125  History of Rock and Roll: Music and Culture Since 1970  (3)

EMPHASIS COURSES

Complete one of the following tracks.

Vocal Track

Complete all of the following courses:
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

(continued on next column)

Complete any two of the following courses:
MUS-352  Jazz/Rock Combos  1
MUS-355  College Chorus  1
MUS-356  Chamber Singers  1
MUS-358  Community Chorale  1
MUS-380  Musical Theatre Workshop I (Principals)  1
MUS-381  Musical Theatre Workshop II (Chorus)  1
MUS-394  Madrigals  1

Total Vocal Track Emphasis Units:  9

Instrumental Track

MUS-166A  Applied Music  1

Complete three units from the following:
MUS-161A  Class Guitar  1
MUS-161B  Class Guitar  1
MUS-161C  Class Guitar  1
MUS-163A  Woodwind Instruments  1
MUS-163B  Woodwind Instruments  1
MUS-163C  Woodwind Instruments  1
MUS-164A  Brass Instruments  1
MUS-164B  Brass Instruments  1
MUS-164C  Brass Instruments  1
MUS-165A  Percussion Instruments  1
MUS-165B  Percussion Instruments  1
MUS-165C  Percussion Instruments  1

(continued on next column)

Complete two units from the following:
MUS-352  Jazz/Rock Combos  1
MUS-370  Symphonic Band  .5
MUS-371  Mixed Wind Ensemble  .5
MUS-374  Community Orchestra  .5

Total Instrumental Track Emphasis Units:  6

(continued on next page)
Commercial Track

Complete the following course:

MUS-112A Pro Tools 101

Complete one of the following courses:

MUS-112B Pro Tools 110 OR
MUS-112C Pro Tools 201 OR
MUS-113 Studio Recording

Total Commercial Track Emphasis Units: 6

Piano Track

Complete the following courses:

MUS-160C Class Piano
MUS-160D Class Piano
MUS-160E Piano Repertoire
MUS-160F Piano Repertoire
MUS-166A Applied Music

Total Piano Track Emphasis Units: 6

Total Required Units for Music Major: 33-36

NATURAL SCIENCE

Associate in Arts in Natural Science

The Associate in Arts 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 Associate in Arts 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 life science and math.

It is imperative that students entering Ohlone’s Associate in Arts 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 ASSOCIATE IN ARTS 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 Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Gain knowledge and skills to succeed in a variety of science or technological careers.

2. Gain knowledge and skills to succeed in science majors at a baccalaureate university.

(continued on next column)

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.

- ANTH-101 Physical Anthropology 4
- BIOL-101A Principles of Biology — Molecular and Cellular 5
- BIOL-101B Principles of Biology — Organisms and Systems 5
- BIOL-103A Human Anatomy and Physiology 4
- BIOL-103B Human Anatomy and Physiology 4
- BIOL-104 Basic Human Anatomy and Physiology 4
- BIOL-105 Heredity, Evolution, and Society 3
- BIOL-106 Microbiology 5
- BIOL-107 Microbiology and Infectious Diseases 3
- BIOL-109 Biology of Sexual Reproduction 3
- BIOL-114 Introduction to Plant Biology 3
- BIOL-130 Introduction to Biology 4
- BIOL-140 Sierra Nevada Natural History 3
- BIOL-141 Marine Biology 3
- BIOL-142 Environmental Biology 4
- BIOT-100 Biotechnology and Society 3
- BIOT-105 Introduction to Cell and Molecular Biology 4
- ENVS-108 Human Ecology 3

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.

- ASTR-101A General Astronomy of the Solar System 3
- ASTR-101B General Astronomy Beyond the Solar System 3
- ASTR-102 General Astronomy Lab 1
- CHEM-101A General Chemistry 5
- CHEM-101B General Chemistry 5
- CHEM-102 Preparation for General Chemistry 4
- CHEM-108 Survey of Chemistry 3
- CHEM-109 Biochemistry for Health Science and Biotechnology 4
- CHEM-112A Organic Chemistry 5
- CHEM-112B Organic Chemistry 5
- GEOG-101 Physical Geography 4
- GEOL-101 Introduction to Geology 4
- GEOL-102 Introduction to Oceangraphy 3
- GEOL-102L Oceanography Laboratory 1
- GEOL-103 Paleontology and Dinosaurs 3
- GEOL-103L Earth History and Paleontology Laboratory 1
- PHYS-108 Survey of Physics 3
- PHYS-120 Introduction to Physics I 4
- PHYS-120A Introduction to Physics — Calculus Supplement 1
- PHYS-121 Introduction to Physics II 4

(continued on next page)
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.

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).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
<td>4</td>
</tr>
<tr>
<td>CNET-114</td>
<td>How Technology Works</td>
<td>4</td>
</tr>
<tr>
<td>CNET-115</td>
<td>Introduction to Robotics and Automated Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security</td>
<td>4</td>
</tr>
<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-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-104D</td>
<td>Web Services for .NET</td>
<td>4</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</td>
<td>4</td>
</tr>
<tr>
<td>CS-125</td>
<td>Introduction to Programming Using Java</td>
<td>4</td>
</tr>
<tr>
<td>CS-131</td>
<td>Computing Concepts in Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>CS-133</td>
<td>Introduction to SAS Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS-134</td>
<td>Introduction to SQL</td>
<td>4</td>
</tr>
<tr>
<td>CS-141B</td>
<td>SAS Graphing and ODS</td>
<td>2</td>
</tr>
<tr>
<td>CS-143</td>
<td>Advanced SAS Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CS-147</td>
<td>UNIX/Linux Shell Scripting</td>
<td>4</td>
</tr>
<tr>
<td>CS-149</td>
<td>PERL Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td>CS-157</td>
<td>TCP/IP and Internetworking</td>
<td>3</td>
</tr>
<tr>
<td>CS-160A</td>
<td>Computer Graphics I</td>
<td>4</td>
</tr>
<tr>
<td>CS-160B</td>
<td>Computer Graphics II</td>
<td>4</td>
</tr>
<tr>
<td>CS-162</td>
<td>XHTML</td>
<td>4</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-175</td>
<td>From JavaScript to AJAX</td>
<td>4</td>
</tr>
<tr>
<td>CS-178</td>
<td>XML</td>
<td>3</td>
</tr>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101B</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>MATH-103</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
<tr>
<td>MATH-111</td>
<td>Introduction to Matlab</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>MATH-166</td>
<td>Finite Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH-167</td>
<td>Calculus for Business and Social Science</td>
<td>5</td>
</tr>
<tr>
<td>MATH-181</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH-188</td>
<td>Pre-Calculus</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Required Units: 20

REQ U IREM ENTS FOR CERTIFIC ATE OF AC HIEVEM ENT

Certificate of Achievement in Network Administrator

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 installing and configuring new equipment, including desktop PCs and servers, troubleshooting day-to-day problems and unusual issues with networked equipment, and evaluating the need for upgrades or replacements of current computer hardware and software solutions. Students who achieve this program can become employed as a network administrator in virtually all businesses and enterprises where computers and networks are used. Students are also well prepared for industry certification.

REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate confidence to work independently to setup, configure, and maintain a network; stand-alone or network application; and a network system.
2. Demonstrate techniques to troubleshoot situations that impact a network; stand-alone or network application; and a network system.
3. Demonstrate oral and written communication skills.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-154</td>
<td>Network Technician Training OR</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-160A</td>
<td>Microsoft Client Operating Systems AND</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Network Infrastructure Administration AND</td>
<td>2</td>
</tr>
<tr>
<td>CNET-164</td>
<td>Microsoft Directory Services OR</td>
<td>2</td>
</tr>
<tr>
<td>CNET-140A</td>
<td>Linux Installation and Configuration AND</td>
<td>2</td>
</tr>
<tr>
<td>CNET-140B</td>
<td>Linux System Administration AND</td>
<td>2</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</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: 20

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEX-195A1-A4</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-102</td>
<td>Information and Communication Technology – Web 2.0</td>
<td>3</td>
</tr>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-114</td>
<td>How Technology Works</td>
<td>4</td>
</tr>
<tr>
<td>CNET-120</td>
<td>VMware: Install, Configure, Manage</td>
<td>2</td>
</tr>
<tr>
<td>CNET-158</td>
<td>Wireless Networks</td>
<td>4</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security</td>
<td>4</td>
</tr>
<tr>
<td>CNET-180</td>
<td>IP Telephony and VoIP Implementation</td>
<td>2</td>
</tr>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-104A</td>
<td>Introduction to .NET Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Required Units: 31-32

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### PHYSICAL THERAPIST ASSISTANT

**Associate in Science in Physical Therapist Assistant**

The Physical Therapist Assistant (PTA) Program is a two calendar year course of study leading to an Associate in 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 Information Competency graduation requirement.

The PTA Program at Ohlone College is limited to 24 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 (CAPTE) of the American Physical Therapy Association (APTA).

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 contact the PTA program office at the Newark campus or see the PTA Web page at [http://www.ohlone.edu/instr/phys_ther/home.html](http://www.ohlone.edu/instr/phys_ther/home.html).

**Requirements for Associate in Science Degree**

a) Complete Major Field and Supporting Courses with a grade of C or better.

b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

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### STUDENT LEARNING OUTCOMES

1. Practice in a variety of settings that serve diverse patient populations.
2. Practice within the laws and regulations of California and the ethical tenets of the American Physical Therapy Association.
3. 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.
4. Self-evaluate learning needs to advance in the profession and improve skills for providing patient care.
5. Effectively communicate with patients, colleagues, and other members of the health care team using oral, written, and non-verbal communication skills.

### MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTA-101</td>
<td>Introduction to Physical Therapy</td>
<td>3</td>
</tr>
<tr>
<td>PTA-102</td>
<td>Pathology</td>
<td>3</td>
</tr>
<tr>
<td>PTA-103</td>
<td>Kinesiology I</td>
<td>3</td>
</tr>
<tr>
<td>PTA-104</td>
<td>Kinesiology II</td>
<td>3</td>
</tr>
<tr>
<td>PTA-105A</td>
<td>Therapeutic Exercise I</td>
<td>3</td>
</tr>
<tr>
<td>PTA-105B</td>
<td>Therapeutic Exercise II</td>
<td>3</td>
</tr>
<tr>
<td>PTA-106</td>
<td>Orthopedics</td>
<td>2</td>
</tr>
<tr>
<td>PTA-108</td>
<td>Advanced Modalities</td>
<td>2</td>
</tr>
<tr>
<td>PTA-109</td>
<td>Physical Therapy Through the Life Span</td>
<td>2</td>
</tr>
<tr>
<td>PTA-110</td>
<td>Neurological Disorders</td>
<td>2</td>
</tr>
<tr>
<td>PTA-111</td>
<td>Advanced Procedures</td>
<td>2</td>
</tr>
<tr>
<td>PTA-301</td>
<td>Clinical Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>PTA-302</td>
<td>Clinical Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>PTA-303</td>
<td>Clinical Internship</td>
<td>4.5</td>
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Total Required Units: 40.5

### SUPPORTING COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL-103A</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-103B</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>PSY-108</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>PTA-119/KIN-256</td>
<td>Sports Performance Testing</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Required Units: 13

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### PHYSICS

**Associate in Science in Physics**

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

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone’s Associate in Science 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.

(continued on next page)
REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete the Major Field courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate a comprehension of physical and environmental reality by understanding how fundamental physical principles underlie the huge variety of natural phenomena and their interconnectedness.
2. Demonstrate a comprehension of biological reality by understanding how physical principles are at work in living organisms.
3. Demonstrate a comprehension of technology by understanding how things work on a fundamental level.
4. 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.
5. 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.
6. Demonstrate basic communication and technical skills by working in groups on a laboratory experiment.
7. 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.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-101B</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>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>

Total Required Units: 45

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

PSYCHOLOGY

Associate in Arts in Psychology for Transfer (AA-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate of Arts in Psychology for Transfer is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Benefits to students completing the Associate in Arts in Psychology for Transfer are that students will earn an associate degree and transfer to a university. Additionally, the Associate in Arts in Psychology for Transfer establishes a clear pathway to transfer. Students who complete the Associate in Arts in Psychology for Transfer will be prepared for employment in public relations, social work, human resources, education, and recreational therapy, among other careers.

REQUIREMENTS FOR ASSOCIATE IN ARTS FOR TRANSFER DEGREE

a) Complete all Major and Supporting Courses with a grade of C or better.
b) Complete CSU GE (Plan B) or IGETC (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
c) Complete a minimum of 60 CSU-transferable semester units.
d) Complete a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
e) Complete a minimum of 21 semester units in the Psychology major.
f) Complete at least 12 units at Ohlone College.

STUDENT LEARNING OUTCOMES

1. Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
2. Apply psychological principles to better understand, recognize, and appreciate personal, social, multicultural, and diversity issues.
3. Recognize what makes psychology a science and will be able to identify the basic research methods used in studying behavior and mental processes.
4. Use critical and creative thinking when approaching scientific information and scientific questions.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</td>
<td>5</td>
</tr>
<tr>
<td>PSY-101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-120</td>
<td>Biological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC-103</td>
<td>Social Science Research Methods</td>
<td>4</td>
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</tbody>
</table>

15

Choose two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY-105</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY-108</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY-115</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

6

Total Required Units: 21
REAL ESTATE SALES BROKER

Associate in Arts in Real Estate Sales Broker and Certificate of Achievement in Real Estate Sales Broker

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 ASSOCIATE IN ARTS DEGREE

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.

STUDENT LEARNING OUTCOMES

1. Examine the basic laws and principles of California real estate.
2. Illustrate real estate listings, deposit receipts, escrows, and financing.
3. Solve fundamental math concepts used in real estate.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-101A</td>
<td>Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>RE-121</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RE-122</td>
<td>Real Estate Practice</td>
<td>3</td>
</tr>
<tr>
<td>RE-124</td>
<td>Legal Aspects of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>RE-126</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>RE-128</td>
<td>Real Estate Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>RE-149</td>
<td>Real Estate Property Management</td>
<td>3</td>
</tr>
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</table>

Total Required Units: 23

SUPPORTING COURSES

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

Total Required Units: 10

REGISTERED NURSE

Associate in Science in Registered Nurse

The nursing program is an Associate in Science degree program that can be completed in four semesters and one summer term after admission to the major. The graduates of an associate degree program in nursing are prepared to practice as staff nurses in direct patient care in hospitals and long-term care facilities, clinics, and other agencies where nursing roles and services are structured and well developed. Most classes are held on the Newark campus. Clinical, hospital, and community experiences are provided at a number of sites in Alameda, Santa Clara, and other local counties. During the first year, nursing students take basic nursing and support courses to the major. The development of critical thinking, professional oral and written communications, and 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 patients 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). Anatomy, Physiology, Microbiology, English, Intermediate Algebra or higher, Nutrition, Developmental Psychology, and Speech must be completed at the time of application in order to be eligible for the Registered Nursing program.

For more information on advanced placement, LVN RN, and the 30 unit option, see Health Sciences Web pages. The program is accredited by the National League for Nursing Accrediting Commission (3343 Peachtree Road NE, Suite 500, Atlanta, GA 30329; 404-975-5000; www.nln.org) and the California Board of Registered Nurses (400 R Street, Suite 4030, Sacramento, California 95814; 916-322-3350; www rn ca gov).

REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Qualify for state licensure as a registered nurse by achieving a passing score on the NCLEX-RN.
2. Value responsibility for professional development and practice within the ethical and legal framework of nursing.
3. Synthesize principles of the nursing process and apply critical thinking to help individuals, families, and communities achieve positive adaptation to change in health or a peaceful death.
4. Synthesize principles of communication to effectively relate with individuals, families, groups, and/or colleagues of diverse sociocultural backgrounds in various health care settings.
5. Empower individuals, families, and the community to develop positive health behaviors through health promotion and teaching.
6. Manage nursing care for individuals, families, and/or communities, in collaboration with a multidisciplinary team.
7. Value a commitment to caring.
8. Integrate evidenced based concepts of nursing practice across the health care continuum to ensure quality patient centered care.
9. Synthesize principles of holistic nursing practice when providing nursing care for clients at various stages in their life span.

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MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>NUR-301</td>
<td>Foundations of Nursing</td>
<td>5.5</td>
</tr>
<tr>
<td>NUR-302</td>
<td>Nursing Care of the Medical-Surgical Patient I</td>
<td>5.5</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</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced Gerontologic Care</td>
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</tr>
<tr>
<td>NUR-307</td>
<td>Nursing Leadership and Preceptorship</td>
<td>5</td>
</tr>
</tbody>
</table>

SUPPORTING COURSES

All Supporting Courses must be completed at the time the student applies to the Nursing program.

<table>
<thead>
<tr>
<th>Course</th>
<th>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>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking OR</td>
<td>3</td>
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<tr>
<td>SPCH-103</td>
<td>Interpersonal Communication</td>
<td>(3)</td>
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</tbody>
</table>

Total Required Units: 61

RESPIRATORY THERAPIST

Associate in Science in Respiratory Therapist

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

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

This program is accredited by the Commission on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road, Bedford, TX 76021-2835, 76021-7244; (817) 283-2835; www.coarc.com.

(continued on next column)

REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.

b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. 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.

2. Demonstrate appropriate critical thinking skills, time management skills, interpersonal communication skills, and technical skills necessary to provide competent respiratory care in multidisciplinary care settings.

3. Qualify for licensure in the state of California.

4. Qualify nationally for Registered Respiratory Therapist status.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AH-151</td>
<td>Applied Clinical Pharmacology</td>
<td>2</td>
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<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>
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<td>RT-105B</td>
<td>Intermediate Laboratory II</td>
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<tr>
<td>RT-107</td>
<td>Intermediate Clinical Practice</td>
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</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>
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</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>
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<tr>
<td>RT-132</td>
<td>Advanced Laboratory</td>
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<tr>
<td>RT-133</td>
<td>Mechanical Ventilation Laboratory</td>
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</tr>
<tr>
<td>RT-134</td>
<td>Neonatal and Pediatric Respiratory Care</td>
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</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>
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<tr>
<td>RT-139</td>
<td>Pulmonary Function Testing</td>
<td>1</td>
</tr>
<tr>
<td>RT-139L</td>
<td>Clinical Practicum in Pulmonary Function Testing</td>
<td>.5</td>
</tr>
</tbody>
</table>

Total Required Units: 74-76

ADMISSION REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>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>CHEM-109</td>
<td>Biochemistry for Health Science and Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>ENGL-101A</td>
<td>Reading and Written Composition</td>
<td>4</td>
</tr>
<tr>
<td>MATH-152</td>
<td>Algebra II OR</td>
<td>5</td>
</tr>
<tr>
<td>MATH-153</td>
<td>Intermediate Algebra</td>
<td>(3)</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</td>
<td>(3)</td>
</tr>
<tr>
<td>PSY-108</td>
<td>Human Development</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total Required Units: 30-32

Photo courtesy of Jaclyn Vetter.
SOCIAL SCIENCE

Associate in Arts in Social Science

The Associate in Arts 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 in Arts 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 ASSOCIATE IN ARTS 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.
c) Complete a minimum of two courses from each of three departments.
d) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate knowledge of the major concepts, theoretical perspectives, empirical findings, and/or historical trends in the social sciences.
2. Develop an appreciation for the importance of social science scholarship by gaining a comprehension of both continuity and change over time as they position themselves and their country, especially its institutions, within the larger social science narrative.
3. Develop effective communications skills by reading secondary and primary source material; discussing course content with the instructor and among their classmates; and writing basic essay arguments using social scientific evidence.

REQUIRED DEGREE COURSES

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ-101</td>
<td>Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>AJ-102</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>AJ-104</td>
<td>Criminal Evidence</td>
<td>3</td>
</tr>
<tr>
<td>AJ-106</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>AJ-107</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>AJ-115</td>
<td>Cyber Crime</td>
<td>3</td>
</tr>
<tr>
<td>AJ-116</td>
<td>Criminal Forensics</td>
<td>3</td>
</tr>
<tr>
<td>AJ-117</td>
<td>Police and Society</td>
<td>3</td>
</tr>
<tr>
<td>AJ-118</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>AJ-119</td>
<td>Murder in America</td>
<td>3</td>
</tr>
<tr>
<td>AJ-123</td>
<td>Terrorism</td>
<td>3</td>
</tr>
<tr>
<td>AJ-131</td>
<td>Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-103</td>
<td>Introduction to Archaeology and Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-104</td>
<td>Survey of North American Indian Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-105</td>
<td>Field Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-106</td>
<td>Magic, Witchcraft, and Religion</td>
<td>3</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>CHS-102A</td>
<td>Chicana/o History I</td>
<td>3</td>
</tr>
<tr>
<td>CHS-102B</td>
<td>Chicana/o History II</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-102</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-104</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-105</td>
<td>California Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST-102A</td>
<td>History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST-102B</td>
<td>History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST-104A</td>
<td>Western Civilization with a World Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST-104B</td>
<td>Western Civilization with a World Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST-105</td>
<td>History of California</td>
<td>3</td>
</tr>
<tr>
<td>HIST-114A</td>
<td>African-American History 1819-1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST-115</td>
<td>Asian-American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST-117A</td>
<td>History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST-117B</td>
<td>History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST-118</td>
<td>Contemporary U.S. History: 1945-1969</td>
<td>3</td>
</tr>
<tr>
<td>HIST-119A</td>
<td>Bad Girls: Women in America Before 1890</td>
<td>3</td>
</tr>
<tr>
<td>HIST-119B</td>
<td>Bad Girls: Women in America From 1890</td>
<td>3</td>
</tr>
<tr>
<td>IS-110</td>
<td>Introduction to Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>IS-120</td>
<td>Women of the Western World</td>
<td>3</td>
</tr>
<tr>
<td>PS-102</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>PS-103</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>PS-105</td>
<td>Comparative Government</td>
<td>3</td>
</tr>
<tr>
<td>PSY-101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-102</td>
<td>Introduction to Experimental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-104</td>
<td>Murder in America</td>
<td>3</td>
</tr>
<tr>
<td>PSY-105</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY-106</td>
<td>Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY-108</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY-112</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-115</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-120</td>
<td>Biological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-139</td>
<td>Psychology in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>SOC-101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC-102</td>
<td>Social Problems of a Diverse Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC-105</td>
<td>Marriage and Family</td>
<td>3</td>
</tr>
<tr>
<td>SOC-106</td>
<td>Chicano Culture I</td>
<td>3</td>
</tr>
<tr>
<td>SOC-142</td>
<td>Sociology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>WEX-195A1</td>
<td>Work Experience Education — Vocational Education</td>
<td>1</td>
</tr>
<tr>
<td>WEX-195A2</td>
<td>Work Experience Education — Vocational Education</td>
<td>2</td>
</tr>
<tr>
<td>WEX-195A3</td>
<td>Work Experience Education — Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>WEX-195A4</td>
<td>Work Experience Education — Vocational Education</td>
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</tr>
</tbody>
</table>

Total Required Units: 20
SOCIETY

Associate in Arts in Sociology for Transfer (AA-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts in Sociology for Transfer is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

REQUIREMENTS FOR ASSOCIATE IN ARTS FOR TRANSFER DEGREE

a) Complete all Major and Supporting Courses with a grade of C or better.
b) Complete CSU GE (Plan B) or IGETC (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
c) Complete a minimum of 60 CSU-transferable semester units.
d) Complete a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
e) Complete a minimum of 19 semester units in the Sociology major.
f) Complete at least 12 units at Ohlone College.

(continued on next column)

STUDENT LEARNING OUTCOMES

1. Demonstrate understanding of a variety of explanations accounting for human behavior (in evolutionary and/or contemporary contexts) and account for differences in terms of the interplay among society, culture, and biology.
2. Demonstrate competence in defining, critically assessing, and using sociological concepts.
3. Have a familiarity with various theoretical perspectives and their historical development in the discipline.
4. Be able to identify and employ various research designs and their appropriate application to the study of social life.
5. Possess an understanding of cross-cultural differences and an understanding of the importance of cultural context.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC-101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC-102</td>
<td>Social Problems of a Diverse Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC-103</td>
<td>Social Science Research Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-159</td>
<td>Introduction to Statistics</td>
<td>5</td>
</tr>
<tr>
<td>PSY-112</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>WS-101</td>
<td>Introduction to Gender and Women’s Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Required Units: 7-9

SUPPORTING COURSES

Choose one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology OR</td>
<td>3</td>
</tr>
<tr>
<td>CHS-101</td>
<td>Chicano Culture I OR</td>
<td>(3)</td>
</tr>
<tr>
<td>SOC-142</td>
<td>Sociology of Sport</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total Required Units: 3

SPEECH AND COMMUNICATION STUDIES

Associate in Arts in Speech and Communication Studies

The Associate in Arts 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 baccalaureate 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 baccalaureate institutions. Some variation in requirements may exist at a particular baccalaureate 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 ASSOCIATE IN ARTS DEGREE

a) Complete Major Field and Supporting Courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

(continued on next page)
**STUDENT LEARNING OUTCOMES**

1. Demonstrate the ability to effectively communicate with diverse audiences in multiple contexts to meet the goals of the intended communication.
2. Demonstrate through performance and analysis the importance of both verbal and nonverbal communication.
3. Describe and analyze the symbolic nature of communication and how it creates individual, group, and cultural reality.
4. Identify, evaluate, and utilize evidence to support claims used in presentations and arguments.

**MAJOR FIELD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-100</td>
<td>Introduction to Communication Theory</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>Small Group Communication/Critical Thinking 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-110A*</td>
<td>Forensics Workshop OR</td>
<td>1</td>
</tr>
<tr>
<td>SPCH-110A2*</td>
<td>Forensics Workshop OR</td>
<td>(2)</td>
</tr>
<tr>
<td>SPCH-110A5*</td>
<td>Forensics Workshop OR</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-112A1*</td>
<td>Argumentation and Debate Workshop OR</td>
<td>(1)</td>
</tr>
<tr>
<td>SPCH-112A2*</td>
<td>Argumentation and Debate Workshop OR</td>
<td>(2)</td>
</tr>
<tr>
<td>SPCH-112A5*</td>
<td>Argumentation and Debate Workshop OR</td>
<td>(5)</td>
</tr>
<tr>
<td>SPCH-114A1*</td>
<td>Oral Interpretation Workshop OR</td>
<td>(1)</td>
</tr>
<tr>
<td>SPCH-114A2*</td>
<td>Oral Interpretation Workshop OR</td>
<td>(2)</td>
</tr>
<tr>
<td>SPCH-114A5*</td>
<td>Oral Interpretation Workshop OR</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-116*</td>
<td>Listening Techniques OR</td>
<td>(1)</td>
</tr>
<tr>
<td>SPCH-190A</td>
<td>Speech Communication Lab Consultant OR</td>
<td>(1)</td>
</tr>
<tr>
<td>SPCH-190B</td>
<td>Speech Communication Lab Consultant OR</td>
<td>(2)</td>
</tr>
<tr>
<td>SPCH-190C</td>
<td>Speech Communication Lab Consultant OR</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-130</td>
<td>Oral Communication of Literature OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-132</td>
<td>Voice and Diction</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**SUPPORTING COURSES**

SPCH-102, SPCH-104, SPCH-106, SPCH-130, and SPCH-132 cannot be double-counted to apply towards Major Field and Supporting Courses.

Select a minimum of three 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>BRDC-141</td>
<td>Live TV Newscast</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-155</td>
<td>Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>PSY-101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC-101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-102</td>
<td>Small Group Communication/Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-104</td>
<td>Critical Thinking/Persuasion</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-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 Communication of Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-132</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td>TD-110</td>
<td>Introduction to Acting</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Required Units: 19-21

*SPCH-110A1-A3, and/or SPCH-112A1-A3, and/or SPCH-114A1-A3, and/or SPCH-190A-C should be taken for a minimum of two units and a maximum of 12 units.

**TECHNICAL SUPPORT SPECIALIST**

Associate in Science in Technical Support Specialist

and

Certificate of Achievement in Technical Support Specialist

Performs any combination of following duties to provide technical support to workers in information processing departments: Develops work goals and department projects. Assigns and coordinates work projects, such as converting to new hardware or software. Designates staff assignments, establishes work priorities, and evaluates cost and time requirements. Reviews completed projects or computer programs to ensure that goals are met and that programs are compatible with other programs already in use. Evaluates work load and capacity of computer system to determine feasibility of expanding or enhancing computer operations. Makes recommendations for improvements in computer system. Modifies, tests, and corrects existing programs. Evaluates and tests vendor-supplied software packages for mainframe computer or microcomputers to determine compatibility with existing system, ease of use, and if software meets user needs. Enters commands into computer to place programs in production status. Inactivates, individually or in combination, each component of computer system, such as central processing unit, tape drives, and mainframe coolers. Tests computer system to determine criticality of component loss. Prioritizes importance of components and writes recommendations for recovering losses and using backup equipment. Assists user to resolve computer-related problems, such as inoperative hardware or software. Trains workers in use of new software or hardware. Reads technical journals or manuals and attends vendor seminars to learn about new computer hardware and software. Writes project reports and documentation for new or modified software and hardware.

**REQUIREMENTS FOR ASSOCIATE IN SCIENCE DEGREE**

a) Complete Major Field and Supporting Courses with a grade of C or better.

b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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 page)
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.

STUDENT LEARNING OUTCOMES

1. Demonstrate confidence to work independently to setup, configure, and maintain a computer (client or server); stand-alone or network application; and/or networking system.
2. Demonstrate techniques to troubleshoot situations that impact the operation of a computer (client or server); stand-alone or network application; and/or networking system.
3. Demonstrate oral and written communication skills.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
<td>4</td>
</tr>
<tr>
<td>CNET-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CNET-154</td>
<td>Network Technician Training</td>
<td>4</td>
</tr>
<tr>
<td>CNET-160A</td>
<td>Microsoft Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Network Infrastructure Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-166</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></td>
</tr>
<tr>
<td></td>
<td>Total Required Units:</td>
<td>21</td>
</tr>
</tbody>
</table>

Supporting Courses

Choose 1-4 units from the following:

- WEX-195A1 – A4 Internship

Choose one course from the following:

- CNET-114 How Technology Works 4
- CS-102 Introduction to Computer Programming Using C++ 4
- CS-104A Introduction to .NET Programming 4

Total Required Units: 26-29

UNIX/LINUX SYSTEMS ADMINISTRATOR

Associate in Science in UNIX/Linux Systems Administrator

Certificate of Achievement in UNIX/Linux Systems Administrator

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 ASSOCIATE IN SCIENCE DEGREE

a) Complete Major Field and Internship courses with a grade of C or better.
b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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)

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.

STUDENT LEARNING OUTCOMES

1. Demonstrate confidence to work independently to setup, configure, and maintain a UNIX/Linux computer (client or server); stand-alone or network application; and/or UNIX/Linux system.
2. Demonstrate techniques to troubleshoot situations that impact the operation of a UNIX/Linux computer (client or server); stand-alone or network application; and/or UNIX/Linux system.
3. Demonstrate oral and written communication skills.

MAJOR FIELD

<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-142A</td>
<td>Linux Networking</td>
<td>2</td>
</tr>
<tr>
<td>CNET-142B</td>
<td>Linux Security</td>
<td>2</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-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-150</td>
<td>Network Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-115</td>
<td>Career Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Required Units:</td>
<td>26</td>
</tr>
</tbody>
</table>

-supporting courses

Complete 2-4 units from the following courses:

- CNET-108 IT Project Management 3
- CNET-141A Linux Apache Web Server Administration 2
- CNET-155A Network Fundamentals 4
- CS-102 Introduction to Computer Programming Using C++ 4
- CS-170 Java Programming 4

Total Required Units: 29-34

INTERNSHIP

Complete 1-4 units from the following:

- WEX-195A1 Work Experience Education — Vocational 1
- WEX-195A2 Work Experience Education — Vocational 2
- WEX-195A3 Work Experience Education — Vocational 3
- WEX-195A4 Work Experience Education — Vocational 4

Total Required Units: 29-34

Did you know?

Every year over 700 Ohlone students graduate with associate degrees or earn vocational certificates!
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 125 semester units and allow students to finish the program in a shorter period of time. Certificates of Accomplishment are approved by Ohlone’s Curriculum Committee and the Ohlone Community College District Board of Trustees, but are not approved by the Chancellor’s Office of the California Community Colleges. Therefore, per Title 5 of the California Education Code (Section §55070.b), Certificates of Accomplishment may not appear on a student’s transcript.

In order to earn a Certificate of Accomplishment students must:

a) complete satisfactorily the courses listed for the particular certificate.

b) complete at least 50% of the required units at Ohlone College.

c) maintain a 2.0 grade point average.

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.

STUDENT LEARNING OUTCOMES

1. Demonstrate a basic knowledge of how sound systems work in a theatrical, live event, and television environment.

2. Demonstrate the basic knowledge of computerized audio software as it relates to recording, editing, and playback of audio tracks.

3. Demonstrate the basic knowledge of how sound is used in a television environment—both live and pre-recorded.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-132/MUS-113</td>
<td>Studio Recording</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-152</td>
<td>Film and Video Production</td>
<td>4</td>
</tr>
<tr>
<td>TD-152</td>
<td>Introduction to Stage Lighting and Sound</td>
<td>3</td>
</tr>
<tr>
<td>TD-160A</td>
<td>Production Lab OR</td>
<td>.5</td>
</tr>
<tr>
<td>TD-160A2</td>
<td>Production Lab</td>
<td>(2)</td>
</tr>
<tr>
<td>TD-170</td>
<td>Survey of Entertainment Design</td>
<td>3</td>
</tr>
</tbody>
</table>

13.5-15

BALLETT 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.

STUDENT LEARNING OUTCOMES

1. Conduct a dance technique class with communicative teaching skills, confidence, and conviction in a studio and/or rehearsal setting.

2. Choreograph a dance that includes three or more dancers, create a rehearsal schedule, budget/manage time with regard to rehearsals, and demonstrate effective communication skills using dance terminology to express choreographic ideas.

3. Demonstrate a clear understanding of theatrical design and technology as it relates to dance by presenting the dance onstage in full production (lighting, sound, costume, and set).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TD-121C</td>
<td>Dance Rehearsal and Performance</td>
<td>4</td>
</tr>
<tr>
<td>TD-141A</td>
<td>Introduction to Ballet AND</td>
<td>2</td>
</tr>
<tr>
<td>TD-141B</td>
<td>Intermediate Ballet (taken twice) OR</td>
<td>4</td>
</tr>
<tr>
<td>TD-141B</td>
<td>Intermediate Ballet (taken three times)</td>
<td>(6)</td>
</tr>
<tr>
<td>TD-149</td>
<td>Choreography for Production</td>
<td>2</td>
</tr>
<tr>
<td>TD-152</td>
<td>Introduction to Stage Lighting and Sound</td>
<td>3</td>
</tr>
<tr>
<td>TD-161</td>
<td>Stagecraft Lab (Theatre, Television, Dance)</td>
<td>1</td>
</tr>
</tbody>
</table>

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 baccalaureate institutions. Students gain knowledge and laboratory skills in molecular and cell biology, metabolic processes, microscopy, genetics, DNA technology, microbiology, systemsatics, 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.

STUDENT LEARNING OUTCOMES

1. Correctly operate common scientific laboratory equipment such as compound microscopes, pH meters, and spectrophotometers.

2. Demonstrate an understanding of the scientific method by applying this approach to experimental situations and evaluating the meaning of experimental outcomes.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-101B*</td>
<td>Principles of Biology – Organisms and Systems</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-101A</td>
<td>Calculus with Analytic Geometry OR</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-121</td>
<td>Introduction to Physics II OR</td>
<td>(4)</td>
</tr>
<tr>
<td>PHYS-142</td>
<td>Optics, Heat, and Modern Physics</td>
<td>(4)</td>
</tr>
</tbody>
</table>

14-15

*BIOL-101B must be completed at Ohlone College.
**BROADCASTING: ADVANCED FILM AND VIDEO**

This certificate shows that a student has successfully completed a sequence of classes and developed specific skills necessary to pursue a career in commercial film or video production.

**STUDENT LEARNING OUTCOMES**

1. Create and execute specific lighting designs for subjects and identify and operate a variety of lighting instruments.
2. Conceive, storyboard, and shoot a video of at least three minutes in length.
3. Incorporate video graphics from a Photoshop file.
4. Construct a video editing timeline, and arrange individual scenes into a sequence, using transitions, split edits, and match frame editing.
5. Manipulate audio tracks to combine the spoken word with music, and mix and calibrate audio tracks.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-134</td>
<td>Final Cut Pro Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-135</td>
<td>Final Cut Pro Suite-Master</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-152</td>
<td>Film and Video Production</td>
<td>4</td>
</tr>
<tr>
<td>TD-152</td>
<td>Introduction to Stage Lighting and Sound</td>
<td>3</td>
</tr>
</tbody>
</table>

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**BROADCASTING: DIGITAL VIDEO AND EDITING**

This certificate confirms that the student has completed a sequence of classes and developed specific skills required to work as a professional video cameraperson, and to edit video using professional grade non-linear editing equipment and software such as Final Cut Pro, AfterEffects, and Motion.

**STUDENT LEARNING OUTCOMES**

1. Identify and operate professional grade Sony news cameras using DV Tape or Solid State Memory storage.
2. Calculate indoor and outdoor color temperature and recognize different kinds of lighting such as incandescent or fluorescent.
3. Demonstrate the ability to edit video using Final Cut Pro or Avid non-linear editing systems.
4. Define codecs and file formats required by broadcast television, the Internet, and in the creation of a DVD.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-110</td>
<td>Digital Video for Web and DVD</td>
<td>4</td>
</tr>
<tr>
<td>BRDC-134</td>
<td>Final Cut Pro Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-135</td>
<td>Final Cut Pro Suite-Master</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
</tbody>
</table>

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**BROADCASTING: ENTERTAINMENT TELEVISION**

This certificate focuses on the skills needed to work on the entertainment side of commercial broadcasting including television situation comedy, sports broadcasting, and news and entertainment programs.

**STUDENT LEARNING OUTCOMES**

1. Access the pictures and interviews needed to assemble a feature or main-interest story.
2. Develop storytelling skills as they apply to television feature and main-interest stories.
3. Evaluate logistics and television equipment needed to complete story within a preset deadline.
4. Respond to the needs of a crew and a supervising producer and function successfully as part of that team.
5. Recall the developmental timeline beginning with film, evolving through different formats of videotape, and memory cards and other current video storage techniques.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-134</td>
<td>Final Cut Pro Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-135</td>
<td>Final Cut Pro Suite-Master</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-144</td>
<td>Sports Broadcasting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-148</td>
<td>Live Television Production</td>
<td>3</td>
</tr>
</tbody>
</table>

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**BROADCASTING: LIVE TELEVISION PRODUCTION**

This certificate is awarded to students who have successfully completed a sequence of courses and thereby developed basic skills required for a career in live television production.

**STUDENT LEARNING OUTCOMES**

1. Recognize the news value of a story and organize story elements.
2. Identify video images to illustrate a news story.
3. Operate a professional video camera and shoot those images.
4. Read and interpret audio and video levels and adjust them.
5. Accept and execute instructions from a newscast producer or director under significant time pressure.
6. Function as part of a television news production crew.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-134</td>
<td>Final Cut Pro Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-141</td>
<td>Live TV Newscast</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-142</td>
<td>Live TV Studio Production</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-148</td>
<td>Live Television Production</td>
<td>3</td>
</tr>
</tbody>
</table>

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**Did you know?**

Deaf Education faculty member Dr. Tom Holcomb reports that on a recent trip to Zanzibar a Deaf man introduced himself and told about his dream of attending a college in the United States. Expecting him to name Gallaudet or Rochester Institute of Technology, the man identified Ohlone College as the college of his dreams. He was thrilled beyond belief upon learning he was meeting a faculty member from Ohlone. When asked why he wanted to attend Ohlone instead of Gallaudet or RIT, he said it was because Ohlone had the best reputation.
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.

**STUDENT LEARNING OUTCOMES**

1. Develop an understanding of the responsibilities of the radio broadcasting personality.
2. Demonstrate the ability to operate a radio broadcast facility from a technical, legal, content, and strategic standpoint.
3. Create and organize a professional-quality radio portfolio consisting of a broadcast aircheck, production samples, resume, and related materials.

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

10

BROADCASTING: RADIO DIGITAL PRODUCTION

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

**STUDENT LEARNING OUTCOMES**

1. Develop an understanding of advanced digital production techniques and their application in the contemporary radio broadcast facility.
2. Demonstrate the operation of primary digital studio systems utilized in a comprehensive studio software package.
3. Create, record, and otherwise prepare digital audio programming for radio broadcast.
4. Create and organize a professional-quality radio portfolio consisting of a broadcast aircheck, production samples, resume, and related materials.

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

10

BROADCASTING: RADIO PROGRAM MANAGEMENT

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

**STUDENT LEARNING OUTCOMES**

1. Develop an understanding of the radio broadcasting industry from a strategic, analytical, organizational, cultural, and historic perspective.
2. Demonstrate a comprehensive understanding of the radio broadcasting operation from a management perspective.
3. Analyze the marketplace from a strategic standpoint and create a commercially viable radio station operations plan.
4. Demonstrate the ability to operate a radio broadcast facility from a technical, legal, content, and strategic standpoint.

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

11

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.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate the ability to operate radio on-air studio and transmission equipment in a professional and legal manner.
2. Formulate and prepare both digital and analog radio production elements.
3. Create and organize a professional-quality radio portfolio consisting of a broadcast aircheck, production samples, resume, and related materials.
4. Identify the procedures required to execute a live remote broadcast.

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

8
BROADCASTING: SPORTS TELEVISION

The Broadcasting: Sports Television Certificate of Accomplishment will show that a student has successfully completed a sequence of classes and developed specific skills required to pursue a career in commercial sports broadcasting.

STUDENT LEARNING OUTCOMES
1. Identify the type of light present and recognize what additional lighting will be needed.
2. Calibrate and adjust video and audio levels.
3. Execute commands from a control room director.
4. Write promotional copy for a sporting event.
5. Function successfully as a member of a broadcast production crew.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDC-134</td>
<td>Final Cut Pro Editing</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-136</td>
<td>Digital Video and Lighting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-144</td>
<td>Sports Broadcasting</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-148</td>
<td>Live Television Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

BUSINESS COMMUNICATION

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

STUDENT LEARNING OUTCOMES
1. Demonstrate the ability to effectively communicate in various business communication contexts (team building, conflict management, interviews, small group communication) with diverse audiences to meet the goals of the intended communication.
2. Utilize theories from communication and social science to understand verbal and nonverbal communication in interpersonal, intercultural, and international contexts.
3. Identify, evaluate, and utilize evidence to support claims used in presentations and arguments.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-102</td>
<td>Small Group Communication/Critical Thinking OR</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-104</td>
<td>Critical Thinking/Persuasion OR</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-106</td>
<td>Critical Thinking/Argumentation and Debate</td>
<td>(3)</td>
</tr>
<tr>
<td>SPCH-103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-105</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH/BA-115</td>
<td>Career Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-116</td>
<td>Listening Techniques</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</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.

STUDENT LEARNING OUTCOMES
1. Apply principles of proper laboratory procedures, safety, and record keeping.
2. Demonstrate proficiency in lab protocols and instrumentation including distillation, refluxing, purification techniques, melting point determinations, and hands-on use of FTIR.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-112A</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-112B</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

CHEMISTRY LIFE 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.

STUDENT LEARNING OUTCOMES
1. Apply principles of proper laboratory safety and record keeping.
2. Demonstrate proficiency in lab protocols and instrumentation including titration, pipetting, UV/Vis spectrophotometry, and solution preparation.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM-101B</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>
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.

**STUDENT LEARNING OUTCOMES**

1. Install, configure, and operate simple-routed LAN, routed WAN, and switched LAN networks.
2. Gain the expertise to pass the test required to achieve Cisco Certified Networking Associate (CCNA) status.
3. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-154</td>
<td>Network Technician Training OR</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Network Fundamentals AND</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>
</tbody>
</table>

8-12

COMMERCIAL MUSIC

The Music Department at Ohlone College has developed the Commercial Music Certificate of Accomplishment to recognize completion of coursework in a range of commercially oriented music courses. Recipients will have a solid foundation in working with Avid’s Pro Tools software, general studio recording techniques, and basic music theory, all of which are necessary for a successful career in today’s music industry.

**STUDENT LEARNING OUTCOMES**

1. Develop a basic understanding of music theory and vocabulary.
2. Develop abilities in the manipulation and editing of digital audio necessary for the construction of professional-level sound recordings.
3. Demonstrate the ability to function efficiently in the operation of a professional-level recording studio.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-103</td>
<td>Fundamentals of Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS-112A</td>
<td>Pro Tools 101</td>
<td>3</td>
</tr>
<tr>
<td>MUS-112B</td>
<td>Pro Tools 110</td>
<td>3</td>
</tr>
<tr>
<td>MUS-113</td>
<td>Studio Recording</td>
<td>3</td>
</tr>
</tbody>
</table>

12

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.

**STUDENT LEARNING OUTCOMES**

1. Examine cutting-edge biological concepts and computer technologies in biotechnology.
2. Operate main databases, tools, and methods for the storage, searching, and analysis of biological molecules.
3. Solve computational problems common to bioinformatics and apply classical computer science solutions to biotechnology.
4. Use statistical analysis software systems for data analysis.
5. Describe basic fundamentals of cells, major cellular components, DNA, and proteins.
6. Apply fundamental algorithms in biomolecular sequence analysis to problem solving in biotechnology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOT-112</td>
<td>Introduction to Bioinformatics</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-121</td>
<td>Biotechnology Careers</td>
<td>1</td>
</tr>
<tr>
<td>CS-131</td>
<td>Computing Concepts in Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>CS-133</td>
<td>Introduction to SAS Programming</td>
<td>3</td>
</tr>
<tr>
<td>BIOT-141B/CS-141B</td>
<td>SAS Graphing and ODS OR</td>
<td>2</td>
</tr>
<tr>
<td>BIOT-143/CS-143</td>
<td>Advanced SAS Programming OR</td>
<td>(3)</td>
</tr>
<tr>
<td>BIOT-133A/CS-133A</td>
<td>Data Analysis Using SAS</td>
<td>(3)</td>
</tr>
</tbody>
</table>

12-13

COMPUTER PROGRAMMING

Upon completion of the Computer Programming certificate program students will be capable of writing high-level language programs in procedural, object-oriented, and event-driven languages.

**STUDENT LEARNING OUTCOMES**

1. Given a specification, design an algorithm and implement the pseudocode to solve the problem.
2. Given a program with logic errors, correct the code by applying debugging and data validation skills.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td>4</td>
</tr>
<tr>
<td>CS-104A</td>
<td>Introduction to .NET Programming</td>
<td>4</td>
</tr>
<tr>
<td>CS-116</td>
<td>Object-Oriented Programming Using C++ OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-170</td>
<td>Java Programming</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-118</td>
<td>Introduction to Assembly Language Programming OR</td>
<td>4</td>
</tr>
<tr>
<td>CS-124</td>
<td>Programming With Data Structures OR</td>
<td>(4)</td>
</tr>
<tr>
<td>CS-178</td>
<td>XML</td>
<td>(3)</td>
</tr>
</tbody>
</table>

15-16
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 technology.

STUDENT LEARNING OUTCOMES

1. Show a basic understanding of hand stitching, sewing machine stitching techniques, draping, cutting, and the construction process typical for the costume construction industry.
2. Apply the basic techniques of theatrical make-up using the appropriate materials and safety procedures.
3. Demonstrate an understanding of how costumes affect the overall theatrical experience as it applies to performance.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ID-158</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>TD-154</td>
<td>Theatrical Makeup for Stage, TV, and Dance</td>
<td>2</td>
</tr>
<tr>
<td>TD-155A</td>
<td>Costume Construction I</td>
<td>3</td>
</tr>
<tr>
<td>TD-155B</td>
<td>Costume Construction II</td>
<td>3</td>
</tr>
<tr>
<td>TD-160A</td>
<td>Production Lab or</td>
<td>.5</td>
</tr>
<tr>
<td>TD-160A2</td>
<td>Production Lab</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14.5-16</td>
</tr>
</tbody>
</table>

DATA COMMUNICATIONS AND WEB PROGRAMMING

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

STUDENT LEARNING OUTCOMES

1. Develop skills in data communications and Internet programming.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAOT-153</td>
<td>Introduction to Internet</td>
<td>1</td>
</tr>
<tr>
<td>CS-152</td>
<td>Data Communications</td>
<td>2</td>
</tr>
<tr>
<td>CS-175</td>
<td>From JavaScript to AJAX</td>
<td>4</td>
</tr>
<tr>
<td></td>
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<td>7</td>
</tr>
</tbody>
</table>

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.

STUDENT LEARNING OUTCOMES

1. Configure an Oracle database for multilingual applications, use various methods of recovering and tuning the database, and use database technologies such as Resource Manager, Scheduler, and Automatic Storage Management (ASM).
2. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-135</td>
<td>Database Fundamentals I: Database Architecture and Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-136</td>
<td>Database Fundamentals II: Database Backup and Recovery</td>
<td>2</td>
</tr>
<tr>
<td>CNET-137</td>
<td>Introduction to SQL</td>
<td>4</td>
</tr>
<tr>
<td>CNET-138</td>
<td>PL/SQL Programming</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

DEAF EDUCATION

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

STUDENT LEARNING OUTCOMES

1. List strengths and weaknesses of various communication methods currently used with Deaf children.
2. Compare and contrast differing philosophies regarding language options for use with Deaf children.
3. Identify educational placements for Deaf children and discuss advantages and disadvantages of each.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF-191</td>
<td>Human Potential Seminar</td>
<td>2</td>
</tr>
<tr>
<td>DEAF-311</td>
<td>Introduction to American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-312</td>
<td>Linguistics of ASL</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-330</td>
<td>Educating the Deaf</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-331</td>
<td>Counseling the Deaf</td>
<td>3</td>
</tr>
<tr>
<td>DEAF-332</td>
<td>Development of the Deaf Child</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

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.

STUDENT LEARNING OUTCOMES

1. Identify the visual elements of two-dimensional and three-dimensional art and the organizational principles for their use as well as the visual elements of color theory.
2. Identify both romantic and classic historic reference in their own work and the work of others.
3. Demonstrate an understanding of the two-dimensional design concepts (i.e. line, shape, color, value, scale, perspective) and of three-dimensional concepts (i.e. form, scale, movement, texture) as well as an understanding of color theory (i.e. color physics, color and form) presented in class lectures.
4. Demonstrate through assigned drawings basic skills an observation of contour and surface.
5. Apply proper studio practice and technique as presented and use the techniques presented in class when working with the media selected for a particular project.
6. Produce a portfolio of finished work that represents the design concepts and color theories presented in class.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<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></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>
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.

STUDENT LEARNING OUTCOMES

1. Install a Windows desktop operating system.
2. Configure and troubleshoot access to resources, hardware devices, and drivers, the desktop and user computing environments, and network protocols and services.
3. Demonstrate appreciation of the Desktop Support career field and the need to be lifelong learners.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>PC Hardware and Software</td>
<td>4</td>
</tr>
<tr>
<td>CNET-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>
</tbody>
</table>

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.

STUDENT LEARNING OUTCOMES

1. Demonstrate a variety of fundamental graphic imaging and sketching techniques.
2. Employ skills and processes required for working in both traditional graphics arts and digital graphics arts.
3. Utilize problem solving techniques in developing creative graphic designs.
4. Prepare a professional quality graphic art presentation.
5. Deliver a verbal presentation of prepared graphic art solutions to a group.
6. Produce a high quality student portfolio of graphic arts projects.
7. Demonstrate personal growth as an artist using graphics arts.

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

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.

STUDENT LEARNING OUTCOMES

1. Develop and refine drawing skills to express visual experiences and communicate ideas.
2. Utilize a range of drawing media, techniques, and approaches to address visual problems.
3. Develop and apply criteria to analyze and critique works of art.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-106A</td>
<td>Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-106B</td>
<td>Intermediate Descriptive Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-107A</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-108</td>
<td>Perspective Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

ENGINEERING

This certificate demonstrates that students have completed courses 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.

STUDENT LEARNING OUTCOMES

1. Employ general principles and proper hands-on technical skills in problem-solving.
2. Conduct engineering technology lab activities, use laboratory materials properly and safely, carefully record all data, and describe the results clearly for others.
3. 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.
4. Demonstrate the ability to use modern engineering instruments and tools necessary for engineering practice of an engineering technologist.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
<tr>
<td>PHYS-141</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose one course from the following:

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

12-13
ENGINEERING/MANUFACTURING TECHNICIAN

This certificate prepares students for a career as a technician in a variety of manufacturing and technical capacities, including electronics assembly, QA/QC, construction, medical devices, energy/environmental industry (i.e., solar energy), semiconductor, computer manufacturing, computer networking, general manufacturing, biotechnology automation, engineering consulting, telecommunications, etc.

STUDENT LEARNING OUTCOMES
1. Describe the role of an engineer; discuss the application of GMP and GLP in bio-manufacturing and other technical fields.
2. Demonstrate proper clean room protocols.
3. Demonstrate the use of basic tools; recommend appropriate procedures to address equipment failure; interpret blueprints; apply principles of electricity and electronics appropriately.
4. Compare and contrast properties of materials such as metals, polymers, and ceramics; compare and contrast the mechanical, electrical, thermal, magnetic, and optical properties of metals, polymers, and ceramics.

BIOT-113 GMP/GLP 1
BIOT-119 Clean Room Operations .5
CAOT-166 2D Drafting with AutoCAD 3
CHMT-102 Chemical Safety and Hygiene 1
CNET-105 PC Hardware and Software 4
ENGI-101 Introduction to Engineering 3
ETEC-106 Electronics for Technology 3
ETEC-107 Properties of Materials .5

RECOMMENDED COURSE
MATH-151 Algebra I (5)

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.

STUDENT LEARNING OUTCOMES
1. Recognize the major components of the earth’s systems and how they function.
2. Recognize the important effects of political, economic, social, and educational forces on environmental protection.
3. Examine individual impacts on global resources and recognize the patterns of unequal distribution of resources worldwide.
4. Demonstrate their understanding of the importance of natural resource policy, major natural resource and environmental regulations, and the current issues in private and public natural resource management.
5. Apply scientific and environmental concepts in studying the environment.
6. Recognize the link between healthy ecosystems (air, water, and land) and healthy human populations.
7. Critically examine all sides of environmental issues and apply understanding of ecological principles to create informed opinions about how to live.

(continued on next column)

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.

STUDENT LEARNING OUTCOMES
1. Identify the visual elements of art and the organizational principles for their use.
2. Demonstrate an understanding of the two dimensional and three dimensional design concepts (i.e. line, shape and form, color, value, scale, perspective) presented in class lectures.
3. Demonstrate critical criteria in which to compare different cultures’ artifacts and art.
4. Describe works of art and period styles with vocabulary used specifically for the study of art history.

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

FITNESS INSTRUCTOR

The Fitness Instructor Certificate of 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.

STUDENT LEARNING OUTCOMES
1. Build an exercise program to fit the needs of a specific population of people.
2. Administer multiple assessment techniques to gather baseline data with respect to cardiovascular fitness, muscular fitness, muscular endurance, flexibility, and body composition.

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 Athletic Training II 2

14-15
FORENSICS

This certificate provides students with training in speaking competitively.

STUDENT LEARNING OUTCOMES

1. Develop and apply various rhetorical strategies in competitive speaking, performance, and/or argumentation and debate.
2. Evaluate and use appropriate evidence to support claims and themes.
3. Analyze and adapt presentations for diverse audiences.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-110A3</td>
<td>Forensics Workshop OR</td>
<td>6</td>
</tr>
<tr>
<td>SPCH-112A3</td>
<td>Argumentation and Debate Workshop OR</td>
<td>6</td>
</tr>
<tr>
<td>SPCH-114A3</td>
<td>Oral Interpretation Workshop</td>
<td>3</td>
</tr>
<tr>
<td>SPCH/TD-132</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
</tbody>
</table>

9-12

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.

STUDENT LEARNING OUTCOMES

1. Explain key issues in gender and women’s studies, including women’s equality and political change; masculinity and femininity; racism and racial equality; marriage and the family; sexuality; the representation of gender, race, and sexuality in the mass media; differences between women; and global human rights and violence against women.
2. Evaluate feminist theoretical perspectives, and compare and contrast multiple approaches to the study of women and gender construction.
3. Analyze intersections between gender and other social and cultural identities, including but not limited to race, ethnicity, national origin, religion, class, and sexuality.
4. Articulate connections between global, regional, and local issues, and their relationship to women’s experiences and to human rights, with an awareness of the importance of context.
5. Evaluate the ways in which societal institutions and power structures impact the material realities of women’s lives.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-101</td>
<td>Introduction to Gender and Women’s Studies</td>
<td>3</td>
</tr>
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</table>

Choose three courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS-112</td>
<td>Contemporary Issues of Chicanas</td>
<td>3</td>
</tr>
<tr>
<td>HIST-119A</td>
<td>Bad Girls: Women in America Before 1890</td>
<td>3</td>
</tr>
<tr>
<td>HIST-119B</td>
<td>Bad Girls: Women in America From 1890</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-108</td>
<td>Gender Communication</td>
<td>3</td>
</tr>
<tr>
<td>WS-115</td>
<td>Women in Literature</td>
<td>3</td>
</tr>
<tr>
<td>WS-120</td>
<td>Women of the Western World</td>
<td>3</td>
</tr>
<tr>
<td>WS-132</td>
<td>Introduction to US Muslim Women and Islam</td>
<td>3</td>
</tr>
<tr>
<td>WS-150</td>
<td>Women’s Health Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

12

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.

STUDENT LEARNING OUTCOMES

1. Distinguish the characteristics and key principles of geography, specifically the subdivision of cartography.
2. Develop an understanding of uses, organization, and analysis of geographical data.
3. Select appropriate techniques and technology to analyze geographic problems.
4. Demonstrate technical skills in data management including data input, editing, query, analysis, and display.
5. Produce and arrange a GIS project using GIS technical skills.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG-120</td>
<td>Introduction to Global Positioning Systems (GPS)</td>
<td>1</td>
</tr>
<tr>
<td>GEOG-121</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
<td>2</td>
</tr>
</tbody>
</table>

7

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.

STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the background, the sequence, and 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.
2. Discuss and describe the major concepts in human geography including place, space, scale, landscape, etc.
3. Demonstrate and explain important characteristics of the major world regions and discuss and compare the major issues confronting that region.
4. Assess earth’s physical environment and explain how various physical forces shape those environments.
5. Evaluate the components and elements of the natural environment and the interrelationships of those components and environments as they relate to the continuance of all life on earth.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENVS-108</td>
<td>Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG-102</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-104</td>
<td>The World’s Nations</td>
<td>3</td>
</tr>
</tbody>
</table>

13
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 Earth History and Paleontology Laboratory 1

STUDENT LEARNING OUTCOMES

1. Demonstrate scientific literacy by defining and explaining the major steps in the scientific method of investigation, specifically the difference between the empirical data, interpretation, testable hypothesis, theory, paradigm, speculation, and pseudo-science.
2. Demonstrate an understanding of the geologic time scale and methods of measuring geologic time.
3. List, explain, and evaluate global and local (county-wide) geological hazards such as earthquakes, volcanoes, landslides, and seismic sea waves in terms of appropriate geological processes and the theory of plate tectonics.
4. Apply 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.

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.

STUDENT LEARNING OUTCOMES

1. Evaluate and critique art objects, especially glass art, for contextual, formal, and technical success.
2. Demonstrate a variety of fundamental graphic imaging and sketching techniques.
3. Utilize problem solving techniques in developing creative graphic designs.
4. Prepare a professional quality graphic art presentation.
5. Deliver a verbal presentation of prepared graphic art solutions to a group.
6. Produce a high quality student portfolio of graphic arts projects.
7. Demonstrate personal growth as an artist using graphics arts.

INTERCULTURAL COMMUNICATION

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

STUDENT LEARNING OUTCOMES

1. Describe and analyze the symbolic nature of communication and how it creates individual, group, and cultural reality.
2. Utilize theories from both communication and social science to understand verbal and nonverbal communication in intercultural contexts.
3. Enhance intercultural communication competence through reflective thought about culture, communication, power, and context.

Did you know???

The U.S. Bureau of Labor Statistics projects that occupations that require an associate degree will grow by 18 percent through 2020—this is twice the national average and faster than the new job growth for those with a bachelor’s degree.

Source: California Community Colleges Chancellor’s Office
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.

STUDENT LEARNING OUTCOMES

1. Identify, analyze, and evaluate design criteria.
2. Synthesize creative design solutions as part of a logical, problem-solving process.
3. Develop and apply a personal vocabulary to address design solutions.

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 AWD (1)
ID/ART-159B Applied Design: Color for the Home (1)

INTERIOR DESIGN COMMUNICATIONS

This Certificate of Accomplishment signifies that students have developed basic graphic and design communication skills and have a firm understanding and appreciation of the importance of visualization and presentation in the practice of Interior Design. This certificate provides a good foundation for continued study in the field of Interior Design.

STUDENT LEARNING OUTCOMES

1. Develop written, verbal, and graphic skills for visualizing and presenting interior design problems, processes, and solutions.
2. Prioritize goals and objectives for interior design presentations.

ART-106A Descriptive Drawing 3
ART-108 Perspective Drawing 3
ID/ART-150A Interior Design Concepts 3
ID/ART-151 Visualization and Presentation 3
ID-157 Professional Practice for Interior Design 3

INTERIOR DESIGN TECHNOLOGY

This Certificate of Accomplishment signifies that students have developed basic drafting skills and have knowledge of the design technologies associated with Interior Design. This certificate provides a good foundation for continued study in the field of Interior Design.

STUDENT LEARNING OUTCOMES

1. Use freehand and scaled architectural drawings and models as a basic communication tool for expressing ideas and developing design plans.
2. Demonstrate proficient drafting skills by developing a set of architectural drawings for a simple interior project.
3. Develop a set of architectural drawings for a simple interior project utilizing CAD software.

ID/ART-150A Interior Design Concepts 3
ID/ART-155A Architectural Drafting for Interior Design 3
ID/ART-155B CAD for Interior Design 3
ID/ART-156 Architectural Modelmaking for Interior Design 3

INTERNATIONAL BUSINESS

The certificate in International Business provides students with business, marketing, and communication skills necessary for academic and professional careers in the field of International Business.

STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the economic and legal aspects of doing business in the global community.
2. Understand and apply the principles of international business and marketing within the context of the international paradigm.
3. Speak and write effectively for diverse audiences in various contexts.
4. Utilize critical thinking in evaluating and researching international business and marketing decisions.
5. Apply the principles and practices of international business and marketing through an internship in an international business or corporation.

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 General Work Experience Education OR 2
BA-138A Services Export Marketing AWD (1)
WEX-185A1 General Work Experience Education OR (1)
BA-140 Global Business Immersion (2)

INTERPERSONAL COMMUNICATION

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

STUDENT LEARNING OUTCOMES

1. Describe and analyze the symbolic nature of communication and how it creates individual, group, and cultural reality.
2. Examine the primary activity of relationships—communication and how it creates and enhances relationships.
3. Use and understand appropriate conflict management skills in various relational settings.

SPCH-102 Small Group Communication/Critical Thinking OR 3
SPCH-104 Critical Thinking/Persuasion (3)
SPCH-103 Interpersonal Communication 3
SPCH-110A1 Forensics Workshop OR 1
SPCH-110A2 Forensics Workshop OR 2
SPCH-110A3 Forensics Workshop OR (3)
SPCH-112A1 Argumentation and Debate Workshop OR (1)
SPCH-112A2 Argumentation and Debate Workshop OR (2)
SPCH-112A3 Argumentation and Debate Workshop OR (3)
SPCH-114A1 Oral Interpretation Workshop OR (1)
SPCH-114A2 Oral Interpretation Workshop OR (2)
SPCH-114A3 Oral Interpretation Workshop OR (3)
SPCH-116 Listening Techniques (1)

12 15 7-9
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.

STUDENT LEARNING OUTCOMES

1. Conduct a dance technique class with communicative teaching skills, confidence, and conviction in a studio and/or rehearsal setting.
2. Choreograph a dance that includes three or more dancers, create a rehearsal schedule, budget/manage time with regard to rehearsals, and demonstrate effective communication skills using dance terminology to express choreographic ideas.
3. Demonstrate a clear understanding of theatrical design and technology as it relates to dance by presenting the dance onstage in full production (lighting, sound, costume, and set).

STUDENT LEARNING OUTCOMES

1. Write a news or feature story or photograph for publication.
2. Arrange and conduct interviews with sources.
3. Understand the role of journalism in our form of democracy.
4. Understand and apply ethical journalism.
5. Analyze Internet journalism sites and evaluate them for content.
6. Identify sources for feature and news stories.

LEADERSHIP COMMUNICATION

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

STUDENT LEARNING OUTCOMES

1. Use and understand leadership theory to inform and direct the way leadership is practiced.
2. Demonstrate the ability to effectively communicate with diverse audiences in multiple contexts to meet the goals of the intended communication.
3. Identify, evaluate, and utilize evidence to support claims used in presentations and arguments.

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.

STUDENT LEARNING OUTCOMES

1. Write a news or feature story or photograph for publication.
2. Arrange and conduct interviews with sources.
3. Understand the role of journalism in our form of democracy.
4. Understand and apply ethical journalism.
5. Analyze Internet journalism sites and evaluate them for content.
6. Identify sources for feature and news stories.

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.

STUDENT LEARNING OUTCOMES

1. Install, operate, maintain, secure, and troubleshoot basic Linux hardware and software services for the Linux operating system on workstations and servers.
2. Provide written documentation about any work they perform.
3. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.

1. Did you know???

Ohlone College remains the only community college in the United States named for an Indian Tribe.
**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.

**STUDENT LEARNING OUTCOMES**

1. Develop Linux/UNIX system administration skills including installation, programming and application development, Web support, security, administration, backup and recovery, optimization and security.

2. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.

<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-142A</td>
<td>Linux Networking</td>
<td>2</td>
</tr>
<tr>
<td>CNET-142B</td>
<td>Linux Security</td>
<td>2</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX/Linux Shell Scripting</td>
<td>4</td>
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<tr>
<td>Total</td>
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<td>15</td>
</tr>
</tbody>
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**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.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate a basic understanding of scheduling and calendar management as it applies to live events.

2. Apply the basic techniques of stage management, including script analysis, managing auditions, running of rehearsals, laying out a scale floor plan, and the recording and calling of cues in production.

3. Show an understanding of the techniques used to organize a successful season of performances and events to enrich the cultural well being of a community.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>BSM-101</td>
<td>Fundamentals of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>TD-150</td>
<td>Technical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TD-159</td>
<td>Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>TD-160A</td>
<td>Production Lab OR</td>
<td>5</td>
</tr>
<tr>
<td>TD-160A2</td>
<td>Production Lab</td>
<td>2</td>
</tr>
<tr>
<td>TD-170</td>
<td>Survey of Entertainment Design</td>
<td>3</td>
</tr>
<tr>
<td>TD-179</td>
<td>Introduction to Stage Management</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
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</tbody>
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**MASS COMMUNICATION**

The Mass Communication Certificate of Accomplishment 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.

**STUDENT LEARNING OUTCOMES**

1. Understand and apply the principles and laws of freedom of speech and press including the right to dissent, to monitor and criticize power, and to assemble and petition for redress of grievances.

2. Demonstrate an understanding of the history of the various forms of mass media especially the relationship between communication theory, social trends, technological trends, and media development.

3. Write and speak effectively for diverse audiences in various contexts.

4. Utilize the principles of ethics in research and use critical thinking in evaluating sources and content.

5. Apply the principles and practices of mass communication through a service-learning project in at least one of the various media outlets at Ohlone College. (May include such areas as ONTV, KOHL, Midnight Magazine, The Monitor, and Web sites.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BRDC-120</td>
<td>Introduction to Electronic Media</td>
<td>2</td>
</tr>
<tr>
<td>COMM-108</td>
<td>Visual Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-101A</td>
<td>Newswriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-155</td>
<td>Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>SPCH-101</td>
<td>Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-123A</td>
<td>Radio Operations I OR</td>
<td>3</td>
</tr>
<tr>
<td>BRDC-141</td>
<td>Live TV News cast OR</td>
<td>3</td>
</tr>
<tr>
<td>JOUR-170</td>
<td>Newspaper Writing and Editing Staff OR</td>
<td>(3)</td>
</tr>
<tr>
<td>JOUR-171</td>
<td>Newspaper Writing and Editing Staff OR</td>
<td>(2)</td>
</tr>
<tr>
<td>JOUR-172</td>
<td>Newspaper Writing and Editing Staff OR</td>
<td>(3)</td>
</tr>
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<td>15-17</td>
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</tbody>
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**MATHMATICS: APPLIED**

The certificate in Applied Math provides students with the mathematical background required to succeed in subsequent courses in math, physics, and engineering.

By earning this certificate students have demonstrated that they possess the mathematical skills that are necessary to begin upper division coursework in applied mathematics.

**STUDENT LEARNING OUTCOMES**

1. Learn the foundation mathematics necessary for further studies in engineering, mathematics, and science.

2. Demonstrate proficiency at problem solving techniques.

3. Apply their knowledge of problem solving techniques towards the solution of problems in engineering and science.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-101C</td>
<td>Calculus with Analytic Geometry</td>
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<tr>
<td>MATH-104</td>
<td>Differential Equations</td>
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<tr>
<td>PHYS-140</td>
<td>Mechanics</td>
<td>4</td>
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<tr>
<td>Total</td>
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<td>14</td>
</tr>
</tbody>
</table>
**MATH E M ATICS: PU RE**

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.

By earning this certificate, the student has demonstrated that they possess the mathematical skills that are necessary to begin upper division coursework in pure mathematics.

**STUDENT LEARNING OUTCOMES**

1. Learn the foundation mathematics necessary for further studies in engineering, mathematics, and science.
2. Demonstrate proficiency at problem solving techniques.
3. Demonstrate a rudimentary level of knowledge for the construction of formal proofs.

| MATH-101C | Calculus with Analytic Geometry | 5 |
| MATH-103 | Introduction to Linear Algebra | 3 |
| MATH-104 | Differential Equations | 5 |
| **Total** | **13** |

**MCITP SERVER ADMINISTRATOR**

The Microsoft Certified IT Professional (MCITP) Server Administrator 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 server operating system.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate confidence to work independently to setup, configure, and maintain a Microsoft computer (client or server); stand-alone or network application; and/or Microsoft Server 2008 system.
2. Demonstrate techniques to troubleshoot situations that impact the operation of a Microsoft (client or server); stand-alone or network application; and/or Microsoft Server 2008 system.
3. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.

| CNET-162 | Windows Network Infrastructure Administration | 2 |
| CNET-164 | Microsoft Directory Services | 2 |
| CNET-166 | Microsoft Server Operating Systems | 2 |
| **Total** | **6** |

**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.

**STUDENT LEARNING OUTCOMES**

1. Conduct a dance technique class with communicative teaching skills, confidence, and conviction in a studio and/or rehearsal setting.
2. Choreograph a dance that includes three or more dancers, create a rehearsal schedule, budget/manage time with regard to rehearsals, and demonstrate effective communication skills using dance terminology to express choreographic ideas.
3. Demonstrate a clear understanding of theatrical design and technology as it relates to dance by presenting the dance onstage in full production (lighting, sound, costume, and set).

| TD-121C | Dance Rehearsal and Performance | 4 |
| TD-144A | Introduction to Modern Dance AND | 2 |
| TD-144B | Intermediate Contemporary Dance (taken twice) OR | 4 |
| TD-144B | Intermediate Contemporary Dance (taken three times) | (6) |
| TD-149 | Choreography for Production | 2 |
| TD-152 | Introduction to Stage Lighting and Sound | 3 |
| TD-161 | Stagecraft Lab (Theatre, Television, Dance) | 1 |
| **Total** | **16** |

**MULTIMEDIA**

This certificate provides students with technical, artistic, and creative skills to develop graphics, animations, videos, and interactive projects.

**STUDENT LEARNING OUTCOMES**

1. Employ principles of design.
2. Employ industry standard software and hardware to create multimedia projects.
3. Demonstrate the ability to produce and optimize media for the Web and DVDs.
4. Design multimedia projects that are creative.

| GA-160A | Computer Graphics I | 4 |
| MM-102A | Introduction to Multimedia | 3 |
| MM-104 | Advanced Interactivity in Flash | 3 |
| MM-110 | Digital Video for Web and DVD | 4 |
| **Total** | **14** |
MUSIC THEORY

The Music Department at Ohlone College has developed the Music Theory Certificate of Accomplishment 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.

STUDENT LEARNING OUTCOMES
1. Demonstrate the ability to analyze musical compositions in terms of form, language, and historical style.
2. Apply theoretical knowledge to the performance and creation of music.
3. Develop an appreciation for musical style and historical trends.

MUS-102 Music Appreciation 3
MUS-110A Music Theory and Harmony 3
MUS-110B Harmony 3
MUS-111A Musicianship I 1
MUS-111B Musicianship II 1
MUS-160A Beginning Class Piano 1

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.

STUDENT LEARNING OUTCOMES
1. Describe the operation of and implement a small switched network; an IP addressing scheme and IP services to meet network requirements for a small branch office; and a small routed network.
2. Explain and select the appropriate administrative tasks required for the implementation of a Wireless Local Area Network (WLAN).
3. Identify security threats to a network and describe general methods to mitigate those threats.
4. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.

CNET-105 PC Hardware and Software 4
CNET-150 Network Operating Systems 4
CNET-154 Network Technician Training 4

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.

STUDENT LEARNING OUTCOMES
1. Demonstrate proficiency in the use of Microsoft’s (MS) Office Software.
2. Demonstrate keyboarding skills at a minimum of 55 wpm.

BA-116 Business English and Communication 4
BA-125 Introduction to Business 3
CAOT-101A Computer Applications I 2
CAOT-104 Basic Keyboarding OR 1
CAOT-110A Beginning Keyboarding I AND (1)
CAOT-110B Beginning Keyboarding II (1)
LS-101 Steps to Successful Research 1
PD-150 Career Planning 2

MUS-102 Music Appreciation 3
MUS-110A Music Theory and Harmony 3
MUS-110B Harmony 3
MUS-111A Musicianship I 1
MUS-111B Musicianship II 1
MUS-160A Beginning Class Piano 1

NATURAL RESOURCE CONSERVATION AND MANAGEMENT

Natural resource management and conservation is congruent with the concept of sustainable development, a scientific principle that forms a basis for sustainable global land management and environmental governance to conserve and preserve natural resources. The Certificate of Accomplishment in Natural Resource Conservation and Management is designed to educate students in the art and science of applied ecological knowledge to aid in managing natural resources, energy, and agriculture. Courses in the program dedicate portions of the class to field trips, lab exercises, and demonstrations of field techniques.

STUDENT LEARNING OUTCOMES
1. Define natural resources.
2. Discuss and describe scientific and environmental concepts in studying the environment.
3. Describe what a non-renewable resource is and what a renewable resource is and its role in different cultural settings.
4. Compare and contrast scientific and cultural issues in sustainable food systems.
5. Consider the functional economic, political, and social relationships among cities and the hinterlands.

ENVS-101 Natural Resource Management 3
ENVS-105 Energy: Development and Sustainability 3
ENVS-107 Introduction to Sustainable Agriculture 3
ENVS-109 Urbanization: Towards Green Communities 3
ENVS-142 Environmental Biology 4

Did you know???

**ORAL INTERPRETATION**

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

**STUDENT LEARNING OUTCOMES**

1. Demonstrate through performance and use of text, vocal variety and appropriate gestures to convey the meaning of the literary selection.

**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.

**STUDENT LEARNING OUTCOMES**

1. 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.
2. 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.
3. Demonstrate an understanding of the geologic time scale and methods of measuring geologic time.
4. Identify and classify the common earth materials, such as most common minerals, rocks, and fossils in the lab and in the field and their basic relationship to common natural resources.

**PHLEBOTOMY**

The Health Sciences and Environmental Studies 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 law. All courses must be passed at Ohlone College with at least a grade of C to earn the certificate.

**STUDENT LEARNING OUTCOMES**

1. Apply knowledge of medical terminology when performing the duties of a certified Phlebotomist.
2. Define the scope and practices of a certified Phlebotomist.
3. Demonstrate safe techniques while drawing blood from a variety of patients.
4. Demonstrate knowledge and skill set needed to fulfill the state requirements for practice as a certified Phlebotomist.
5. Complete successfully 50 venipunctures and 10 skin sticks on live patients as required by California State law.

**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.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate personal growth as an artist using photography.
2. Employ skills and processes required for working in traditional film photography.
3. Employ skills and processes required for working in digital photography.
4. Appraise the role of photography in society from its invention to the present day.
5. Recognize historical movements and contemporary trends in photography.
**PHYSICAL SCIENCE**

The Certificate of Accomplishment in Physical Science is awarded for studies of the physical world from the very small to the infinite. Upon completion of this certificate students will have investigated such phenomena as light, energy, the states of matter, chemical reactions, the formation of planet earth, and its place in the universe. This certificate provides an excellent foundation for further studies in science education and other fields.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate a comprehension of physical and environmental reality by understanding how fundamental physical laws explain the huge variety of natural phenomena and their interconnectedness.
2. Build critical thinking and quantitative skills by gaining insight into the models and approximations of the physical sciences, and by searching for the physical interpretation of mathematical results.
3. Develop basic experimental skills by the practice of setting up and conducting an experiment with due regards to minimizing measurement error, by the precise classification of objects, phenomena and data, and by the thoughtful discussion and interpretation of the results.
4. Demonstrate basic and technical communication skills by working in groups on a laboratory experiment.

**PHYS-108 Survey of Physics**

Choose one course from the following:
- **CHEM-101A General Chemistry OR CHEM-108 Survey of Chemistry**

Choose one group from the following:
- **GEOL-101 Introduction to Geology OR GEOL-102 Introduction to Oceanography AND GEOL-102L Oceanography Laboratory**

Choose one group from the following:

**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.

**STUDENT LEARNING OUTCOMES**

1. Demonstrate a comprehension of technology by understanding how things work on a fundamental level.
2. 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.
3. 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.
4. 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.

**PHYS-108 Survey of Physics**

Choose one course from the following:
- **MATH-101C Calculus with Analytic Geometry**
- **PHYS-140 Mechanics**
- **PHYS-141 Electricity and Magnetism**
- **PHYS-142 Optics, Heat, and Modern Physics**

**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.

**STUDENT LEARNING OUTCOMES**

1. Apply the general principles of physics to a variety of problems.
2. Demonstrate appropriate mechanical and electrical measurement techniques in scientific applications.
3. Compare and contrast the properties of materials and matter in the solid, liquid, and gaseous state.

**PHYS-108 Survey of Physics**

Choose one course from the following:
- **BIOT-122 Introduction to Nanotechnology OR PHYS-108 Survey of Physics**
- **PHYS-120 Introduction to Physics I**
- **PHYS-121 Introduction to Physics II**

**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.

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.

**STUDENT LEARNING OUTCOMES**

1. Apply the general principles of physics to a variety of problems.
2. Demonstrate appropriate mechanical and electrical measurement techniques in scientific applications.
3. Compare and contrast the properties of materials and matter in the solid, liquid, and gaseous state.
PIANO PERFORMANCE

The Music Department at Ohlone College has developed the Piano Performance Certificate of Accomplishment 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.

STUDENT LEARNING OUTCOMES

1. Demonstrate an intermediate level of piano technique.
2. Demonstrate a basic knowledge of music theory.
3. Develop an understanding and appreciation of the place of piano repertoire in the history and evolution of both Western and Non-Western music styles.
4. Exhibit increased confidence when performing before an audience.

Complete the following courses:

MUS-103 Fundamentals of Music 3
MUS-166A Applied Music 1

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)

*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.

Complete any one of the following courses:

MUS-101 Introduction to Music – Western Classical Music OR (3)
MUS-102 Music Appreciation OR (3)
MUS-121 The History of Jazz (3)

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.

STUDENT LEARNING OUTCOMES

1. Examine the basic laws and principles of California real estate.
2. Illustrate real estate listings, deposit receipts, escrows and financing.
3. Solve fundamental math concepts used in real estate.

Choose a minimum of two courses from the following: 6-8

RE-117 Computer Applications in Real Estate 3
RE-121 Real Estate Principles 3

Complete the following courses:

RE-117 Computer Applications in Real Estate 3
RE-121 Real Estate Principles 3

Choose a minimum of two courses from the following: 6-8

BA-101A Financial Accounting 5
BA-102A Principles of Economics-Macroeconomics 3
BA-102B Principles of Economics-Microeconomics 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.

STUDENT LEARNING OUTCOMES

1. Examine the basic laws and principles of California real estate.
2. Illustrate real estate listings, deposit receipts, escrows, and financing.
3. Solve fundamental math concepts used in real estate.

Choose a minimum of two courses from the following: 6-8

RE-117 Computer Applications in Real Estate 3
RE-121 Real Estate Principles 3

Complete the following courses:

RE-117 Computer Applications in Real Estate 3
RE-121 Real Estate Principles 3

Choose a minimum of two courses from the following: 6-8

BA-101A Financial Accounting 5
BA-102A Principles of Economics-Macroeconomics 3
BA-102B Principles of Economics-Microeconomics 3
RE-122 Real Estate Practice 3
RE-124 Legal Aspects of Real Estate OR 3
BA-141A Business Law (3)
RE-126 Real Estate Finance 3
RE-128 Real Estate Appraisal 3
RE-149 Real Estate Property Management 3

12-14
RENEWABLE ENERGY AND SUSTAINABLE DEVELOPMENT

Students completing this program will examine strategies to efficiently and cleanly utilize our planet’s natural resources to produce energy, food, and urban habitats. This program focuses on living and growing sustainably without degrading the environment so that future generations of all species may thrive.

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 energy. The student will acquire knowledge and skills in the design and operation of energy systems, energy policy, with an emphasis on non-renewable and renewable energy systems. These skills may assist or enhance their work in areas such as energy management, the design of small to medium size energy systems, sustainable development and renewable energy research. 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 also provides an excellent background for the various careers in the fields of environmental studies, environmental sciences, public policy, and energy management.

STUDENT LEARNING OUTCOMES

1. Describe the current global energy situation as it exists today and society’s response to it.
2. Define what a non-renewable and a renewable energy source is.
3. Calculate non-renewable and renewable energy sources in terms of their viability, usability, and sustainability.
4. Plan and design various non-renewable and renewable energy sources for current and future applications.
5. Interpret the economic and social implications of energy use across the globe.

ENVS-104 Solar Photovoltaic Design and Installation 3
ENVS-105 Energy: Development and Sustainability 3
ENVS-106 Wind Energy: Design and Development 3
ENVS-107 Introduction to Sustainable Agriculture 3
ENVS-109 Urbanization: Towards Green Communities 3

SPEECH AND COMMUNICATION STUDIES

This certificate provides students with competent communication skills used in both academic and professional settings.

STUDENT LEARNING OUTCOMES

1. Demonstrate the ability to effectively communicate with diverse audiences in multiple contexts to meet the goals of the intended communication.
2. Demonstrate through performance and analysis the importance of both verbal and nonverbal communication.
3. Describe and analyze the symbolic nature of communication and how it creates individual, group, and cultural reality.
4. Identify, evaluate, and utilize evidence to support claims used in presentations and arguments.

SPCH-101 Introduction to Public Speaking 3
SPCH-110A1 Forensics Workshop OR 1
SPCH-110A2 Forensics Workshop OR 2
SPCH-112A1 Argumentation and Debate Workshop OR 1
SPCH-112A2 Argumentation and Debate Workshop OR 2
SPCH-112A3 Argumentation and Debate Workshop OR 3
SPCH-114A1 Oral Interpretation Workshop OR 1
SPCH-114A2 Oral Interpretation Workshop OR 2
SPCH-114A3 Oral Interpretation Workshop OR 3
SPCH-116 Listening Techniques 1

Choose two courses from the following:

COMM-100 Introduction to Communication Theory 3
SPCH-102 Small Group Communication/Critical Thinking 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-107 Leadership Communication 3
SPCH-108 Gender Communication 3
SPCH/BA-115 Career Communication 3
SPCH-122 Family Communication 3
SPCH/TD-130 Oral Communication of Literature 3
SPCH/TD-132 Voice and Diction 3

15
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.

STUDENT LEARNING OUTCOMES
1. Demonstrate a basic understanding of the safe and effective use of hand tools and power tools used in stagecraft.
2. Show an understanding of the basic techniques of set construction—including studio and traditional flats and platform construction.
3. Display an understanding of basic scene painting techniques including dry brush, scumble, stipple, spatter, and wet blends and their use in creating successful scenic art.

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 stagecraft and lighting design necessary to communicate expressed choreography in the professional theatrical field.

STUDENT LEARNING OUTCOMES
1. Conduct a dance technique class with communicative teaching skills, confidence, and conviction in a studio and/or rehearsal setting.
2. Choreograph a dance that includes three or more dancers, create a rehearsal schedule, budget/manage time with regard to rehearsals, and demonstrate effective communication skills using dance terminology to express choreographic ideas.
3. Demonstrate a clear understanding of theatrical design and technology as it relates to dance by presenting the dance onstage in full production (lighting, sound, costume, and set).

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.

STUDENT LEARNING OUTCOMES
1. Display a basic understanding of electricity and its distribution as it relates to theatrical and television lighting equipment.
2. Demonstrate a working knowledge of the basic lighting fixtures and accessories used in the theatre and television industry.
3. Show a basic working knowledge of lighting control systems as they pertain to the theatrical and lighting industry.
4. Illustrate concepts using 3D objects and animations.
5. Plan and develop projects from concept through to completion.

3D MODELING AND ANIMATION

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

STUDENT LEARNING OUTCOMES
1. Employ industry standard software to create 3D imagery and animations.
2. Demonstrate the ability to create 3D objects.
3. Demonstrate the ability to create 3D animations.
4. Illustrate concepts using 3D objects and animations.

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.

STUDENT LEARNING OUTCOMES
1. Demonstrate an understanding of video game terminology.
2. Produce 3D models and animations for video games.
3. Demonstrate technical and creative skills required to produce a game.
4. Plan and develop projects from concept through to completion.
5. Construct projects in a team environment while following production practices employed in the video game industry.
VOCAL MUSIC PERFORMANCE

The Music Department at Ohlone College has developed the Vocal Performance Certificate of Accomplishment 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.

STUDENT LEARNING OUTCOMES
1. Demonstrate a basic knowledge of vocal anatomy and the physical technique of singing.
2. Develop increasing skill in the execution and interpretation of vocal musical repertoire.
3. Demonstrate a high degree of confidence in live performance situations.
4. Demonstrate the ability to successfully interact with others in vocal ensemble settings.
5. Prepare for performances in a variety of vocal styles and settings.

MUS-160A Beginning Class Piano 1
MUS-162C Class Voice — Intermediate 2
MUS-162D Class Voice — Intermediate 2
MUS-162E Vocal Repertoire 2
MUS-162F Vocal Repertoire 2
MUS-166A Applied Music 2

Complete three units from the following courses (courses may be repeated): 3
MUS-356 Chamber Singers 1
MUS-394 Madrigals 1

11

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.

STUDENT LEARNING OUTCOMES
1. Demonstrate an advanced knowledge of vocal production.
2. Show an increased comfort level and performance demeanor during public performance.
3. Perform vocal music with appropriate stylistic interpretation from different eras.
4. Show clear growth in ability to communicate musical ideas with “live” audience.

MUS-160A Beginning Class Piano 1
MUS-162E Vocal Repertoire 2
MUS-162F Vocal Repertoire 2
MUS-166A Applied Music 2

7

Complete three units from the following courses (courses may be repeated): 3
MUS-356 Chamber Singers 1
MUS-394 Madrigals 1

10

WEB DELIVERY

This is the second of three Web Certificates, which together prepare students for a broad and specific readiness in dynamic Web technology, from administration to development and interface. Web Delivery specializes on programming languages currently driving the data on the Web.

STUDENT LEARNING OUTCOMES
1. Demonstrate knowledge and skills in programming languages currently driving the data on the Web.

Choose 16 units from the following courses:
CS-104A Introduction to .NET Programming 4
CS-104B Advanced .NET Programming 4
CS-149 PERL Programming 4
CS-170 Java Programming 4
CS-172 Servlets and JSP 4

16

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.

STUDENT LEARNING OUTCOMES
1. Employ industry standard software to create a variety of Web sites.
2. Create and optimize images, animations, sounds, and interactive applications for the Web.
3. Explain the design process from concept to completion.
4. Employ principles of design.
5. Develop aesthetic understanding to analyze and critique Web sites.
6. Demonstrate understanding of professional practices such as writing contracts, working with clients, and implementation of copyright law.

MM-102A Introduction to Multimedia 3
MM-104 Advanced Interactivity in Flash 3
MM-105 Web Site Design 4
MM-106 Advanced Web Site Design 3

13
8 ADVISORY COMMITTEES

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

Jim Andrews
CPA, Accounting/Business Administration Faculty, Ohlone College

Maria Ku
CPA, Tax Preparation, Tax Strategy Consulting

Ed Robinson
CPA, Edward A. Robinson

Lloyd Yarbrough
Controller, Omnunor Corporation

Richard G. Cominos, Sr.
Assistant Professor/Coordinator, Administration of Justice Department, Ohlone College

Brian Foley
Chief of Police, City of Union City

Richard Keller
Superior Court Judge, Alameda County

James Leal
Chief of Police, Newark Police Department

Richard Lucero
Interim Chief of Police, City of Fremont

Nancy O’Malley
District Attorney, Alameda County

Steven M. Osawa
Chief, Safety and Security, Ohlone College

Steve Pangelinan
Chief of Police, Milpitas Police Department

Kenton W. Rainey
Chief of Police, BART Police Department

George Rodgers
Anthropology/Geography/Geology Faculty, Ohlone College, Retired

Brendon D. Woods
Public Defender, Alameda County

BIOTECHNOLOGY

Dr. Mark Barnby
Biology Faculty, Ohlone College

Terry Barton
Learning and Communications, Boehringer-Ingelheim

Dr. Jim Baxter
Biology Faculty, Ohlone College

Gary Benz
Biology and Teacher, American High School

Christina Briggs
Economic Development Manager, City of Fremont

Jesse Casados
R&D Project Manager, Penumbra Inc.

Patti Castro
Assistant Director, Alameda County WIB

Clay Colvin
Planning Manager, City of Newark

Angelique Finney
Biology Faculty, Ohlone College

Christine Friday
Economic Development Coordinator, City of Union City
Dr. Mike Holtzclaw  
Dean, Science, Engineering, and Mathematics, Ohlone College

Dr. Laurie Issel-Tarver  
Biotechnology Faculty, Ohlone College

Iqbal Khan  
Scientist, Applied Biosystems

Michael Leung  
Dean of College of Science, California State University, East Bay

Michelle Mensinger  
Chair, Science Department, Newark Memorial High School

Dr. Ken Olson  
Olson Consulting

Sally Porfido  
Economic Development Coordinator, City of Hayward

Josie Sette  
Director, Applied Biotechnology Center, Ohlone College

Frankie Tate  
Science Chair, Granada High School

Robert To  
Scientist, Xoma Ltd.

Dr. Mike Holtzclaw  
Dean, Science, Engineering, and Mathematics, Ohlone College

Dr. Laurie Issel-Tarver  
Biotechnology Faculty, Ohlone College

Iqbal Khan  
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Economic Development Coordinator, City of Hayward

Josie Sette  
Director, Applied Biotechnology Center, Ohlone College

Frankie Tate  
Science Chair, Granada High School

Robert To  
Scientist, Xoma Ltd.

Sandi Woods  
Operations Manager, Genencor

Michael Yoshida  
Senior Manager, Manufacturing and Technical Support, Allergan

Did you know?  
In 2011 the California Community Colleges and California State University launched the new Associate Degree for Transfer program that simplifies the student transfer process between the two systems. The initiative will generate approximately $160 million annually in cost savings and those savings will provide access to 40,000 additional community college students and nearly 14,000 California State University students each year.  
Source: California Community Colleges Chancellor’s Office

BROADCASTING (RADIO)

Bob Dochterman  
Director, Radio Operations, Ohlone College

Lisa Fox  
Air Personality, KYSR & KIOL Radio

Robert Sean King  
Director of Internet Services, Clear Channel Broadcasting

Mark Pape  
Reporter/Anchor, TTN/Clear Channel Communications

Kirk Peffer  
Music Director, KEZR Radio

Dave Shakes  
Chief Programming Officer, Results Radio; President, Shakes Radio Consulting

Lisa St. Regis-Sturges  
Air Personality, KISQ & KHHT Radio

BROADCASTING (TELEVISION)

Belva Davis  
News Anchor/Reporter, KPIX TV, KRON TV, KQED TV, Retired

Peggy Geary  
Motion Picture Continuity Supervisor

Sam Goldman  
Sports Information Office, San Francisco State University, Retired

Paul Hammons  
Adjunct Faculty, Ohlone College

Gary Kauf  
Director, Television Operations, Ohlone College

Jay Martinez  
Managing Assignment Editor, KTVU TV News

Michael Stockwell  
Chief Engineer, KEZR Radio/ KBAY Radio

Rob Williams  
Syndicated Morning Personality/President, Williams Broadcasting
BUSINESS SUPERVISION/MANAGEMENT

Sucy Collazo  
Owner, Mexico Tortilla Factory

Kristen Harrison  
Education Manager, IISME

Lupe Lopez  
Owner, Arteaga’s Food Center

Marrybeth McCarthy  
Business Service Representative, Workforce Investment Board, ACWIB

Christine Sibley  
Adjunct Faculty, Ohlone College

Larry Simmers  
Supervisor, Larry Simmers Coach Treatment & Disposal Services, Union Sanitary District

Donna Wies  
Quality Program Coordinator, Union Sanitary District

COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY

Ann Beheler  
Consultant, Convergence Technology Center PI

John Bjerke  
West Region Area Academy Manager, Cisco Network Academy Program

Jon Burgess  
Development Executive, Apple Computer

Joseph Cannata  
Director, Brocade

John Carrese  
Director, Economic and Workforce Development Center of Excellence

Scott Edwards  
Global Operations, Edu Services, Juniper Networks

Janice Foley  
HP Procure Americas Training and Certification Manager, Hewlett Packard

Dennis Frezzo  

Ruth Kavanagh  
Labor Market Consultant, California EDD

Greg Kovich  
Senior Account Director, Alcatel-Lucent

Steve Legere  
Director, Symantec

Donna Milgram  
Executive Director, Institute for Women in Trades, Technology and Science

Dan Myers  
Director, Citrix

Dave Nelson  
EWD COE Sacramento, VMware

Nina Paolo  
Program Manager, IMB Innovation Center for Business, IBM

Leann Peling  
Comcast External Affairs, Comcast

Alan Rowland  
Education to Careers Business Development Manager, CompTIA

Beverly Seyfert  
Medical Center Area Technology Director, Kaiser Permanente

Megan Stewart  
Adobe Systems Director, Worldwide Higher Education, Adobe

Charlie Verboom  
Desktop Support Manager, Lawrence Berkeley National Labs

Kim Yohanna  
Director, EMC

DISABLED STUDENTS PROGRAMS AND SERVICES

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 Skills Instructor, Chabot College

Kevin Kirk  
High Tech Center/Access Specialist, Ohlone College

Terry Taskey  
Faculty/Counselor, Disabled Students Programs and Services, Ohlone College

Kelly Wilmeth  
Director, Interpreting and Accommodations Services, Ohlone College

EARLY CHILDHOOD STUDIES

Neva Bandelow  
Child Development Corps Program Manager, Every Child Counts

Dr. Gale Carli  
Dean, Health Sciences and Environmental Studies, 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

Michele McDowell  
Early Childhood Studies Faculty, Ohlone College

Maroof Mendez  
Director/President, ABC Moments Preschool
EXTENDED OPPORTUNITY PROGRAMS AND SERVICES

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Dominican Sisters, Mission San Jose

Sandy Bennett
EOPS/CARE Program Coordinator, Ohlone College

Ann Burdett
Director, Disabled Students Programs and Services, Ohlone College

Ann Crosbie
Fremont Unified School District Board Member

Steve Giudici
Principal, Fremont Adult and Continuing Education

Emmanuel Lopez
EOP Admissions and Summer Bridge Coordinator, California State University, East Bay

Melinda Matsuda
Vice President of Student Services, Chabot College, Retired

Paul McKery
Pastor, Resurrection Baptist Church

Sonia Patel
Student, Ohlone College

Stan Rutkowski
Pastor, Calvary Assembly of God

Judy Schwartz
Administrator, Fremont Family Resource Center

Jan Vincent
Owner, IVA Business Services

Dr. Kenn Waters
Counselor, Ohlone College, Retired

GRAPHIC ARTS

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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

Cynthia Luckoski
Graphic Arts Faculty, Ohlone College

INTERIOR DESIGN

Toni Berry
Interior Designer, Marie Antoinette Custom Home Interiors

Walter Birkedahl
Dean, Arts and Social Sciences, Ohlone College

Barbara Daher
Instructor, Chabot College

Jennifer Anne Dye
Residential Designer

Annette Fagundes
Gabriella Ronegas Designs

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Art Faculty, Ohlone College, Retired

Jill Hornbeck
Designer

Adrain W. Huang
Chair, Architecture Department, School of the Arts, Chabot College
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PTA Program Director, Ohlone College

Katelyn Johnson
Integrated Health Manager, Cisco

Robin Kurotori
Health/Fitness and Wellness Faculty, Ohlone College

Jeffrey Roberts
Athletic Trainer; Physical Education Faculty, Ohlone College

Ineke Rush
Owner, Mindful Movement Collective

Christopher Warden
Director of Kinesiology, Athletics, and Community Education, Ohlone College

MULTIMEDIA

Diana Bennett
Multimedia Instructor, College of San Mateo

Justin Everett-Church
Senior 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

Cynthia Luckowski
Graphic Arts Faculty, Ohlone College

Derek Wilson
Assistant Professor, Multimedia Studies, College of Marin

PHYSICAL THERAPIST ASSISTANT

Dr. Gale Carli, RN
Dean, Health Sciences and Environmental Studies

Donald Chu, P.T., Ph.D.
PTA Adjunct Faculty, Ohlone College; Owner, Athercare Fitness and Rehabilitation

Kelly Davis, M.P.T.
Athercare Fitness and Rehabilitation

Sheryl Einfalt, M.P.T.
PTA Program Director, Ohlone College

Robin Kurotori
Health/Fitness and Wellness Faculty, Ohlone College

Carol Morodoni, M.P.T.
PTA Program ACCE, Ohlone College

Marianne Piorkowski, D.P.T.
PTA Program Director/ACCE, Cerritos College

Dr. Barry Rose
Orthopedic Surgeon, Palo Alto Medical Foundation, Fremont Center

Matt Silva, P.T.A.
PTA/Clincial Instructor, Vibrant Care

Trude Silva, P.T.
Physical Therapist, Redwood Orthopedic

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

Dr. Leta Stagnaro, M.S., P.T.A.
Vice President, Academic Affairs/Deputy Superintendent, Ohlone College

Kathy Utchen, P.T.A.
P.T.A Adjunct Faculty, Ohlone College; P.T.A, John Muir
Did you know?
The term "community college" was first used by President Harry Truman in 1947 in a study he commissioned on higher education. The idea of community colleges appealed to the President, and his administration began to put in place mechanisms to foster the growth of such institutions around the country.
Source: American Association of Community Colleges

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Real Estate Broker, Better Homes

Amber Hatter
Real Estate Broker, Look Realty

Brad Hatton
Real Estate Broker, Century 21

Paul Lejoy
Real Estate Broker, Pacific Realty Partners

John Mora
Real Estate Agent, Keller Williams

Rich Pete
Real Estate Agent, Yahoo

RESPIRATORY THERAPIST

Dr. Carmen Agcaoili
Director, Intensivist Program, Washington Hospital

Michael Blaisdell
Respiratory Therapist Program Faculty, Ohlone College

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

George Daluz
Manager, Respiratory Care, Valley Care Hospital

Harleen Dhami
Alumna, Ohlone College; Washington Hospital

Stephen Eshelman
Director, Respiratory Therapy Department, Kaiser Permanente, Oakland

Jan Fraga
Manager, Respiratory Care, Kindred Hospital of the Bay Area

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

SMITH CENTER COMMUNITY ADVISORY BOARD

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Timothy Roberts
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Shirley Sisk
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Lori Stokes
Director, Star Struck Theatre

Margaret Thornberry
Fremont Cultural Arts Council
HOW TO READ COURSE DESCRIPTIONS

Every course description includes the course name (the abbreviation of the department followed by the course number, for example, 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 and 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

A “Prerequisite” is a course that needs to be successfully completed with a grade of C or better before a student can register for another course. The prerequisite course contains knowledge and skills that will enable the student to be more prepared for the next course. For example, students must complete MATH-188, Pre-Calculus, with a grade of C or better before being able to register for MATH-101A, Calculus.

A “Corequisite” is a course that must be taken during the same term as another course. Students need to take both courses during the same semester as information is shared between the courses and students will have a better chance of succeeding. For example, students who register for GEOL-102L, Oceanography Laboratory, also need to register for GEOL-102, Introduction to Oceanography, during the same semester.

An “Advisory” is a course that students are recommended to take before registering in another course, but are not required to do so. Students are encouraged to take an Advisory course before registering for another course as the information in the first course will help them succeed in the second course. For example, ENGL-120A, Survey of American Literature: Beginning to 1865, has an Advisory of ENGL-101A, Reading and Written Composition.

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.
COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a class schedule or catalog lists a course bearing a C-ID number, for example CHEM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID CHEM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different California community colleges. However, students should always go to www.assist.org to confirm how each college’s course will be accepted at a particular baccalaureate college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the course listings in the Ohlone catalog or WebAdvisor (https://webadvisor.ohlone.edu) for Ohlone courses that have been approved for C-ID. Counselors can always help students interpret or explain this information.

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 letter 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 identified by the number 210 for ½ 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. Selected Topics courses are not CSU or UC transferable.
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 courses, 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.

PUBLIC SAFETY COURSES

Ohlone College is a member of the South Bay Regional Public Safety Training Consortium. Vocational training courses are offered in various areas including, but not limited to, the following: Correctional Officer, Law Enforcement Officer, Reserve Police Officer, Dispatcher, Fire Technology, Probation Officer, and Juvenile Hall Counselor. The Consortium is funded by various colleges regionally to provide vocational specific training which may require special facilities, special training conditions, or is presented outside of the schedules of regular college classes. Students who would like a schedule of these classes or more information on specific programs may call (408) 270-6458.

The application and registration process is completed at the South Bay Regional Public Safety Training Consortium located at 3099 Yerba Buena Road in San Jose. These courses are open to the public. Students who would like information about a career in any of these programs should call (408) 270-6458.

ACADEMIC DIVISION INFORMATION

There are eight academic divisions at Ohlone including Arts and Social Sciences; Business, Technology, and Learning Resources; Counseling; Deaf Studies; Kinesiology and Athletics; Health Sciences and Environmental Studies; Language and Communication; and Science, Engineering, and Mathematics. Following are the departments contained within each academic division and the contact information for each division.

Division: Arts and Social Sciences
Departments: Administration of Justice (AJ); Air Force (AF); Art (ART); Broadcasting (BRDC); Chicano/Latino Studies (CHS); Gender and Women’s Studies (WS); Graphic Arts/Computer Graphics (GA); History (HIST); Interior Design (ID); Interdisciplinary Studies (IS); Multimedia (MM); Music (MUS); Philosophy (PHIL); Political Science (PS); Psychology (PSY); Sociology (SOC); Speech and Communication Studies (SPCH) Theatre and Dance (TD)
Dean: Walter Birkedahl
Executive Assistant: Sheila Holland
Location: Fremont campus, Smith Center, Room 147
Phone number: (510) 659-6216

Division: Business, Technology, and Learning Resources
Departments: Business Administration (BA); Business Supervision/Management (BSM); Computer Applications and Occupational Technology (CAOT); e-Campus; Computers, Networks, and Emerging Technology (CNET); Computer Science (CS); Learning Resource Center; Library Science (LS); Real Estate (RE); Work Experience Education (WEX)
Dean: Lesley Buehler
Executive Assistant: Sila Marques
Location: Fremont campus, Room 1302
Phone number: (510) 659-6080

Division: Counseling
Departments: Career Services, Counseling, Learning Skills Program (LSP), Orientation, Personal Development (PD), Placement Testing, Transfer Center
Interim Dean: Wayne Takakuwa
Location: Fremont campus, Room 7322
Phone number: (510) 659-6057

Division: Deaf Studies
Departments: American Sign Language (ASL), Deaf Preparatory Program (DEAP), Interpreter Training (INT)
Interim Deans: Thomas Holcomb and Nancy Pauliukonis
Executive Assistant: Nora Chopelas
Location: Fremont campus, Room 6203
Phone number: (510) 659-6269

Division: Health Sciences and Environmental Studies
Departments: Allied Health (AH), Consumer and Family Sciences (CFS), Contract Education, Early Childhood Studies (ECS), Education (EDUC), Environmental Studies (ENVS), Nursing (NUR), Physical Therapist Assistant (PTA), Respiratory Therapist (RT)
Dean: Gale Carli
Executive Assistant: Zelma Hunter
Executive Assistant: JoAnne Serran
Location: Newark campus, Room NC1324
Phone number: (510) 742-3100

Division: Kinesiology and Athletics
Departments: Athletics (ATHL), Health (HTHL), Kinesiology (KIN), Physical Education (PE), Community Education
Director: Christopher Warden
Executive Assistant: Laura Martinez
Location: Fremont campus, Room 9303
Phone number: (510) 659-6044

Division: Language and Communication
Departments: Arabic (ARBC); Basic Skills; Chinese (CHIN); Communication (COMM); English (ENGL); English as a Second Language (ESL); English Learning Center; French (FREN); Japanese (JPN); Journalism (JOUR); Spanish (SPAN); Speech and Communication Studies (SPCH)
Dean: Mark Lieu
Executive Assistant: Kathleen Martinez
Location: Fremont campus, Room HH-227
Phone number: (510) 659-6173

Division: Science, Engineering, and Mathematics
Departments: Anthropology (ANTH); Astronomy (ASTR); Biology (BIOL); Biology-Chemistry Learning Center; Bionotechnology (BIOT); Chemical Technology (CHMT); Chemistry (CHEM); Engineering (ENGI); Engineering Technology (ETEC); Geography (GEOG); Geology (GEOG); Mathematics (MATH); Math Learning Center; Physics (PHYS); Physics-Engineering Learning Center
Dean: Mike Holtzclaw
Executive Assistant: Irene Benavidez
Location: Fremont campus, Room 8203
Phone number: (510) 659-6191

2013-2014 OHLONE COLLEGE CATALOG
**ADMINISTRATION OF JUSTICE**

Division: Arts and Social Sciences

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**AJ-101 Administration of Justice**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
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)

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**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. (GR)

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**AJ-104 Criminal Evidence**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
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. (GR)

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**AJ-106 Criminal Procedure**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU

This course covers the principles and procedures of the justice system. The course is an in-depth study of the role and responsibilities of each segment within the Administration of Justice system—law enforcement, judicial, and corrections. (GR)

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**AJ-107 Criminal Investigation**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
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. (GR)

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**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)

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**AJ-115 Cyber Crime**
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Advisory: ENGL-101A
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)

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**AJ-116 Criminal Forensics**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
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. (GR)

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**AJ-117 Police and Society**
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
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. (GR)

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**AJ-118 Criminology**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC

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. C-ID SOCI 160 (GR)

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**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 murderers, and terrorism. (GR)
AJ-131  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: ENGL-101A
Accepted For Credit: CSU
This course examines basic information about the structure and nature of domestic and international terrorism and the roles of state and local law enforcement in national defense. (GR)

AJ-131  Juvenile Justice
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
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. (C-ID AJ 220 (GR)

AJ-132  Civil Law
36.00 hrs lecture
Units: 2.00
Advisory: Eligible for ENGL-101A
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 obtaining and enforcing emergency protective restraining orders. (GR)

AJ-135  Drug Enforcement
36.00 hrs lecture
Units: 2.00
Advisory: Eligible for ENGL-101A
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. (GR)

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. (CR)

AJ-141  Post PC 832 Basic Firearms Qualification
10.00 hrs lecture, 14.00 hrs lab
Units: 1.00
Prerequisite: 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. (CR)

AJ-144  Leadership Skills Development
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
This course is designed to teach basics of police supervision including historical perspectives, purposes and principles of organizations, the operating principle, art and style of leadership, human resources management, and the future of police supervision. (GR)

AIR FORCE
Division: Arts and Social Sciences

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)

AF-101B  Foundations of the U.S. Air Force
18.00 hrs lecture, 18.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Today’s Air Force officer and the Air Force as a whole. (GR)

AF-102A  The Evolution of the U.S. Air Force
22.50 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Introduction to ethics, values, leadership and leadership problems, and communication skills. (GR)

AF-102B  Evolution of the U.S. Air Force
Air and Space Power
36.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU
Introduction to ethics, values, leadership and leadership problems, and communication skills. (GR)

Did you know???
Ohlone was the first smoke-free college in the Bay Area and has set a trend for other colleges.
**ALLIED HEALTH**

Division: Health Sciences and Environmental Studies

**AH-110**  
**Medical Terminology**  
72.00 hrs lecture  
Units: 4.00  
Prerequisite: AH-110  
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-117A**  
**Basic Phlebotomy Training**  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: AH-110  
This course meets the California content standards for basic phlebotomy training. It is the first course in the four course series leading to the Phlebotomy Certificate of Accomplishment and eligibility to sit for the state certification exam as a Phlebotomy Technician I. Not applicable to associate degree. (GR)

**AH-117B**  
**Phlebotomy Skills Lab**  
27.00 hrs lab  
Units: 0.50  
Prerequisite: AH-117A; 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. 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. Not applicable to associate degree. (GR)

**AH-117C**  
**Advanced Phlebotomy Training**  
27.00 hrs lecture  
Units: 1.50  
Prerequisite: AH-117A and AH-117B; both 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. This course addresses each standard as outlined in the California standards and includes preparation for state certification. Not applicable to associate degree. (GR)

**AH-117D**  
**Phlebotomy Externship**  
108.00 hrs lab  
Units: 2.00  
Prerequisite: AH-117C; 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. Not applicable to associate degree. (GR)

**AH-118**  
**Advanced Phlebotomy for Practitioners**  
27.00 hrs lecture  
Units: 1.50  
Prerequisite: Phlebotomy work experience within the past five 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. Not applicable to associate degree. (GR)

**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)

**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-101A4**  
**Principles of American Sign Language I**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU

This course covers the beginning fundamental principles of American Sign Language and introduces basic information about the Deaf community and Deaf culture. This course is required for students majoring in American Sign Language/Deaf Studies and is a prerequisite for students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)
ASL-101B Principles of American Sign Language I
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-101A or two years of high school ASL
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-101B4 Principles of American Sign Language I
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ASL-101A
Accepted For Credit: CSU
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 ASL-101B
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-102A4 Principles of American Sign Language II
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ASL-101A or ASL-101B
Accepted For Credit: CSU
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. (GR)

ASL-102B Principles of American Sign Language II
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-102A
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 community and Deaf culture. This course is recommended for students who have completed ASL-102A and desire further study and review. Students are expected to attend outside events at their own expense. (GR)

ASL-102B4 Principles of American Sign Language II
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ASL-102A
Accepted For Credit: CSU
This course is an enhanced and expanded Level II study of the fundamentals of American Sign Language and is a further study of the Deaf community and Deaf culture. This course is recommended for students who have completed ASL-102A and desire further study and review. Students are expected to attend outside events at their own expense. (GR)

ASL-103A Principles of American Sign Language III
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-102A or ASL-102B
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. The course 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-103A4 Principles of American Sign Language III
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ASL-102A or ASL-102B
Accepted For Credit: CSU
This course covers the fundamental principles of Level III of American Sign Language for students who have completed ASL-102A, and is a further study of the Deaf community and Deaf culture. It is required for students majoring in American Sign Language/Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)

ASL-103B Principles of American Sign Language III
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-103A
Accepted For Credit: CSU & UC
This course covers the fundamental principles of Level III 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)

ASL-103B4 Principles of American Sign Language III
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ASL-103A
Accepted For Credit: CSU
This course covers the fundamental principles of Level III 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)

ASL-104A Principles of American Sign Language IV
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-103A or ASL-103B
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. The course 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
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. (GR)

ASL-142 Deaf Culture
54.00 hrs lecture
Units: 3.00
Prerequisite: Completion of, or concurrent enrollment in, ASL-101A or ASL-101B
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
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-103B and 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. Taught in ASL only. (GR)

ASL-152 Advanced Fingerspelling
18.00 hrs lecture
Units: 1.00
Prerequisite: ASL-102A or ASL-102B
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. (GC)

ASL-154 Advanced American Sign Language Vocabulary
36.00 hrs lecture
Units: 2.00
Prerequisite: ASL-102A or ASL-102B
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. (GC)

ASL-155 ASL Literature (Folklore)
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-102A or ASL-102B
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. Taught in ASL only. (GR)

ASL-156 Advanced Reception of ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-102A or ASL-102B
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. (GR)

ASL-157 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. Taught in ASL only. (GR)

ASL-158 Classifiers in ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-102A or ASL-102B
In this course, students will study the classifier system of ASL. Taught in ASL only. (GC)

ASL-160 American Sign Language Field Work
54.00 hrs lab
Units: 1.00
Prerequisite: ASL-101A or ASL-101B
This course offers direct experience signing in formal and/or informal conversational settings or projects involving knowledge of ASL and Deaf culture. (GR)

ASL-161 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. (GR)

ASL-181A 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. (GC)

ASL-181B Conversational ASL II
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-181A
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. (GC)
**ASL-183**  
**ASL Skill Building**  
54.00 hrs lecture  
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. Taught in ASL only. (GC)

**ASL-190A**  
**Workshop in Beginning ASL I**  
54.00 hrs lecture  
Units: 3.00  
This course is a Beginning Level I basic workshop for students covering selected topics in the area of American Sign Language (ASL), Deaf Education, and Deaf Culture. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors and focused to meet the needs of the workshop participants. (CR)

**ASL-190B**  
**Workshop in Beginning ASL II**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ASL-190A  
This course is a Beginning Level II workshop for students covering selected topics in the area of American Sign Language (ASL), Deaf Education, and Deaf Culture. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. (CR)

**ASL-190C**  
**Workshop in Beginning ASL III**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ASL-190B  
This course is an Advanced Beginning Level III workshop for students covering selected topics in the area of American Sign Language (ASL), Deaf Education, and Deaf Culture. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors and focused to meet the needs of the workshop participants. (CR)

**ASL-191A**  
**Workshop in Intermediate ASL I**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ASL-190C  
This course is an Intermediate Level ASL workshop for students covering selected topics in the area of American Sign Language (ASL), Deaf Education, and Deaf Culture. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. (CR)

**ASL-191B**  
**Workshop in Intermediate ASL II**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ASL-191A  
This course is a Level II Intermediate workshop for students covering selected topics in the area of American Sign Language (ASL), Deaf Education, and Deaf Culture. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. (CR)

**ASL-191C**  
**Workshop in Intermediate ASL III**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ASL-191B  
This course is a Level III Intermediate workshop for students covering selected topics in the area of ASL and Deaf Studies. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. (CR)

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**ANTH-101**  
**Physical Anthropology**  
54.00 hrs lecture  
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. (GC)
**ANTH-106**  Magic, Witchcraft, and Religion  
54.00 hrs lecture  
Units: 3.00  
Advisory: ANTH-102; 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)

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**ARABIC**  
Division: Language and Communication

**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)

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**ART**  
Division: Arts and Social Sciences

**ART-101**  Art: An Introduction  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
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: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a survey of the history of sculpture, architecture, and visual arts throughout the world prior to 1300 CE. The civilizations, regions, and cultures studied are Mesopotamia, Egypt, Ancient Greece, Rome, Early Christian, Islam, African, Pre-Columbian, Asia, and the art of the Americas. (GC)

**ART-103B**  Survey of World Art History — 14th Century Through 20th Century  
72.00 hrs lecture  
Units: 4.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a survey of the history of sculpture, architecture, and visual arts throughout the world after 1300 CE. The civilizations, regions, and cultures studied are Europe, Africa, Asia, and the Americas. (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 techniques and concepts related to the organization of two-dimensional imagery. Studio work will include pen and ink, collage, painting, drawing, and bookmaking. (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 principles of three-dimensional form. (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. (GC)

**ART-105A**  Glass Art and Design  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
This course is an introduction to fundamentals of art and design using glass as a medium. Studies include line, form, shape, color, and spatial relationships. The course covers glass cutting, lamination, copper foil stained glass, casting and fusing techniques. (GC)
ART-105B  Advanced Glass Fabrication  
36.00 hrs lecture, 72.00 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. (GC)

ART-105C  Three-Dimensional Glass  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-105B  
Accepted For Credit: CSU  
This course emphasizes 3-dimensional glass, using advanced techniques in kiln forming, casting, abrasive blasting, lamination, and coldworking. (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 fundamental drawing skills and techniques. Direct observation, composition, and methods of expressing subject matter—as well as the use of charcoal, pencil, ink, and pastel—will be emphasized. (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 a continued exploration of drawing concepts focusing on creative expression and composition. The course emphasizes developing a sustainable studio practice using a variety of methods and materials. (GC)

ART-107A  Life Drawing  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-106A  
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. (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. (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. (GC)

ART-109A  Beginning Graphic Design I  
(Letter Forms and Typography)  
36.00 hrs lecture, 72.00 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. (GC)

ART-109B  Beginning Graphic Design II  
36.00 hrs lecture, 72.00 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 student’s ability to formulate and communicate a concept into graphic form for both presentation and production. (GC)

ART-110A  Advanced Graphic Design I  
36.00 hrs lecture, 72.00 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. (GC)

ART-110B  Advanced Graphic Design II  
36.00 hrs lecture, 72.00 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 course 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. (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 & UC
This is an introductory course in studio painting practices designed to involve the student in basic studio techniques and experiences with regard to color, composition, and subject matter. Oil paint will be the primary media. Introduction to other painting media will be included in the instruction. C-ID ARTS 210 (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 ART-111A with an emphasis on form and content of subject matter. Techniques in painting with a student choice of media will be further explored. (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. (GC)

ART-116A Advanced Sculpture
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-116A
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. (GC)

ART-116B Sculpture and Beyond
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-116B
Accepted For Credit: CSU
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. (GC)

ART-116C Basic Sculpture
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: ART-104A or ART-106A
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. (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. The course 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
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. (GC)

ART-119A 3-Dimensional Studio Lab
27.00 hrs lab
Units: 0.50
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. (GR)

ART-120A Ceramic Studio Development and Maintenance I
54.00 hrs lab
Units: 1.00
Prerequisite: ART-121B
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. (GC)

ART-120B Ceramic Studio Development and Maintenance II
54.00 hrs lab
Units: 1.00
Prerequisite: ART-121B
Accepted For Credit: CSU
This course is a continuation of ART-120A. 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. In addition, the students will train incoming students on the appropriate treatment and use of equipment. (GC)

ART-121A Introductory Ceramics I
36.00 hrs lecture, 72.00 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. (GC)

ART-121B Introductory Ceramics II
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-121A
Accepted For Credit: CSU & UC
This class is a continuation of ART-121A. The emphasis is on wheel throwing, advanced handbuilding, glaze application, and understanding the loading and firing of bisque kilns. (GC)
ART-122A  Ceramic Throwing I  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121B  
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, thin-necked bottles, and teapot sets. (GC)

ART-122B  Ceramic Throwing II  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121B  
Accepted For Credit: CSU & UC  
This course is a continuation of ART-122A. The emphasis is on designing, throwing, glazing, and firing advanced thrown and hand-built forms. This involves working on some ceramic projects for weeks at a time. There will be projects involving a combination of thrown and hand-built forms. This course will also emphasize appropriate glazes for particular forms. (GC)

ART-123  Ceramic Decorating  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121B  
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, stencils, slip trailing, combing, marbling, commercial underglazes, raw oxides, and overglazes. (GC)

ART-124  Advanced Ceramic Decorating  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121B  
Accepted For Credit: CSU & UC  
The emphasis is on designing and forming completed ceramic works for the market. This course includes large outdoor ceramic shapes such as tiles and murals and non-functional ceramic sculpture. (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, 72.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course covers the fundamental processes of photography including camera mechanics, film exposure, optics, composition, and darkroom skills required to produce quality continuous tone black and white prints. Course will include an overview of historic and contemporary photography. A camera with manual controls is required. (GC)

ART-133B  Intermediate Black and White Photography  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-133A  
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. (GC)

ART-133C  Advanced Black and White Photography  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-133B  
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 previsualization techniques and affords the opportunity for students to work independently on photography projects of their own design. (GC)

ART-133L  Photography Studio Lab  
27.00 hrs lab  
Units: 0.50  
Corequisite: ART-133A, ART-133B, and/or ART-133C  
Accepted For Credit: CSU  
This course is a lab component of all film-based black and white photography classes in the Art Department. Students will work on photographic portfolio projects. (CR)

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. (GC)

ART-138B  Intermediate Photoshop  
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-138B  
Prerequisite: ART-138A or 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. (GC)
ART-139A  Beginning Digital Photography
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-169A
Advisory: ART-138A and ENGL-151A
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 ART-138A and ART-138B. Students should consider completing ART-138A prior to enrolling in this course, but it is not a requirement. (GC)

ART-139B  Intermediate Digital Photography
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-169A
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 and ART-138B. Students should consider completing ART-138A prior to enrolling in this course, but it is not a requirement. (GC)

ART-146  Photography/Graphics Arts  Newspaper Staff
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Cross-referenced Course: JOUR-146
Advisory: ART-106A or ART-133A
Accepted For Credit: CSU
Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the college 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. ART-146 students are expected to produce one photo/graphic per issue. (GC)

ART-147  Photography/Graphics 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
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. ART-147 students are expected to produce two photos or graphics per issue. (GC)

ART-148  Photography/Graphics Arts Newspaper Staff
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Cross-referenced Course: JOUR-148
Advisory: ART-106A or ART-133A
Accepted For Credit: CSU
Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the college 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 digital cameras, Macintosh computers, scanners, and PhotoShop for completion of assignments. Students are also introduced to legal and ethical responsibilities. ART-148 students are expected to produce three photos or graphics per issue. This course is usually reserved for managers and editors. (GC)

ART-150A  Interior Design Concepts
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ID-150A
Accepted For Credit: CSU
In this introductory course, students analyze interiors using basic design concepts, principles, and techniques used by professional interior designers, and case studies in problem solving with an emphasis on residential interiors are presented. (GC)

ART-150B  Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-150B
Prerequisite: ART-150A or 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. (GC)

ART-151  Visualization and Presentation
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-151
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 projects for a design portfolio. (GC)

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Did you know???
California community colleges train 80% of firefighters, law enforcement personnel, and emergency medical technicians.
Source: California Community Colleges Chancellor’s Office

2013-2014 OHLONE COLLEGE CATALOG
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Units</th>
<th>Cross-referenced Courses</th>
<th>Accepted For Credit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-153</td>
<td>History of Decorative Arts</td>
<td>36.00 hrs</td>
<td>3.00</td>
<td>ID-153</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>ART-154</td>
<td>Contemporary Home Design</td>
<td>36.00 hrs</td>
<td>2.00</td>
<td>ID-154</td>
<td>CSU</td>
</tr>
<tr>
<td>ART-155A</td>
<td>Architectural Drafting for Interior Design</td>
<td>36.00 hrs, 72.00 hrs lab</td>
<td>3.00</td>
<td>ID-155A</td>
<td>Concurrent with ART-163, GA-163, or ID-163</td>
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<tr>
<td>ART-155B</td>
<td>CAD for Interior Design</td>
<td>36.00 hrs, 72.00 hrs lab</td>
<td>3.00</td>
<td>ID-155B</td>
<td>ART/ID-155A</td>
</tr>
<tr>
<td>ART-156</td>
<td>Architectural Modelmaking for Interior Design</td>
<td>36.00 hrs, 72.00 hrs lab</td>
<td>3.00</td>
<td>ID-156</td>
<td>Accepted For Credit:</td>
</tr>
<tr>
<td>ART-157</td>
<td>Professional Practice for Interior Design</td>
<td>54.00 hrs</td>
<td>3.00</td>
<td>ID-157</td>
<td>Accepted For Credit:</td>
</tr>
<tr>
<td>ART-158</td>
<td>Textiles</td>
<td>36.00 hrs</td>
<td>3.00</td>
<td>ID-158</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>ART-159A</td>
<td>Applied Design: Residential Lighting</td>
<td>18.00 hrs</td>
<td>1.00</td>
<td>ID-159A</td>
<td>CSU</td>
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<tr>
<td>ART-159B</td>
<td>Applied Design: Color for the Home</td>
<td>18.00 hrs</td>
<td>1.00</td>
<td>ID-159B</td>
<td>CSU</td>
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<tr>
<td>ART-160A</td>
<td>Computer Graphics I</td>
<td>54.00 hrs</td>
<td>4.00</td>
<td>BA-160A, GA-160A, CS-160A</td>
<td>Accepted For Credit:</td>
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<tr>
<td>ART-160B</td>
<td>Computer Graphics II</td>
<td>54.00 hrs</td>
<td>4.00</td>
<td>BA-160B, GA-160B, CS-160B</td>
<td>Accepted For Credit:</td>
</tr>
<tr>
<td>ART-161A</td>
<td>Digital Graphics I</td>
<td>18.00 hrs</td>
<td>2.00</td>
<td>GA-161A, CAOT-161A</td>
<td>CSU</td>
</tr>
</tbody>
</table>
ART-161B  Digital Graphics II  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Cross-referenced Course: GA-161B, CAOT-161B  
Prerequisite: ART-161A, CAOT-161A, or GA-161A  
Accepted For Credit: CSU  
This course is a continuation of ART-161A. The emphasis in this course is on developing intermediate and advanced skills needed to set up and operate a digital graphics work station and publish on the Web. Students complete projects of their choice using complex graphics software, scanners, tablets, and printers. The course emphasis is on the continued development of a portfolio of computer images. (GC)

ART-163  Digital Arts Lab — Macintosh  
27.00 hrs lab  
Units: 0.50  
Cross-referenced Course: GA-163, ID-163  
This course is a lab component for all courses taught on the Macintosh and on drafting equipment in these areas: Art, Graphic Arts/Computer Graphics, Photography, and Interior Design. Students will produce digital graphic and drafting projects for related classes. (CR)

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ASTRONOMY  
Division: Science, Engineering, and Mathematics

ASTR-101A  General Astronomy of the Solar System  
54.00 hrs lecture  
Units: 3.00  
Advisory: MATH-151 and ASTR-102  
Accepted For Credit: CSU & UC  
This course provides the student with an introduction to the history, principles, methods, and fundamentals of astronomy. (GR)

ASTR-101B  General Astronomy Beyond the Solar System  
54.00 hrs lecture  
Units: 3.00  
Advisory: ASTR-102  
Accepted For Credit: CSU & UC  
This course is an introduction to the fundamental principles and the dynamics of the astronomy beyond the Solar System. (GR)

ASTR-102  General Astronomy Lab  
54.00 hrs lab  
Units: 1.00  
Corequisite: ASTR-101A or ASTR-101B  
Advisory: MATH-151  
Accepted For Credit: CSU & UC  
This is an introductory lab course covering the methods and fundamentals of astronomy through inquiry and experiments. (GR)

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ATHLETICS  
Division: Kinesiology and Athletics

ATHL-101A2  Functional Sports Performance  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is for incoming student athletes to perform and develop their skills as they relate to their specific sport. This course will also be an opportunity for specific coaches to evaluate individual players and to better identify deficiencies prior to the start of the season. (GC)

ATHL-101A3  Functional Sports Performance  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is for incoming student athletes to perform and develop their skills as they relate to their specific sport. This course will also be an opportunity for specific coaches to evaluate individual players and to better identify deficiencies prior to the start of the season. (GC)

ATHL-110A2  Sport Specific 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 improve neuromuscular conditioning and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. (GR)

ATHL-110A3  Sport Specific 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 improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. (GR)

Photo courtesy of Don Jedlovec.
ATHL-112A2 Advanced Strength Training
36.00 hrs lab
Units: 0.50
Advisory: Medical clearance within the last year
Accepted For Credit: CSU & UC
This activity class is designed to assist the student athlete with advanced strength training techniques for personal muscular development. (GC)

ATHL-112A3 Advanced Strength Training
54.00 hrs lab
Units: 1.00
Advisory: Medical clearance within the last year
Accepted For Credit: CSU & UC
This activity class is designed to assist the student athlete with advanced strength training techniques for personal muscular development. (GC)

ATHL-120A2 Cross Training for the Athlete
36.00 hrs lab
Units: 0.50
Advisory: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course allows for the athlete to continue their strength and conditioning requirements while exploring alternate methods of exercise. There will be an opportunity to develop new strength training techniques, focus on specific body systems such as the cardiorespiratory system, and to achieve a sense of body readiness when it pertains to an upcoming sports season. (GR)

ATHL-120A3 Cross Training for the Athlete
54.00 hrs lab
Units: 1.00
Advisory: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course allows for the athlete to continue their strength and conditioning requirements while exploring alternate methods of exercise. There will be an opportunity to develop new strength training techniques, focus on specific body systems such as the cardiorespiratory system, and to achieve a sense of body readiness when it pertains to an upcoming sports season. (GR)

ATHL-122A2 Progressive Weight Training
36.00 hrs lab
Units: 0.50
Advisory: Medical clearance within the last year
Accepted For Credit: CSU & UC
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. (GC)

ATHL-122A3 Progressive Weight Training
54.00 hrs lab
Units: 1.00
Advisory: Medical clearance within the last year
Accepted For Credit: CSU & UC
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. (GC)

ATHL-220 Intercollegiate Volleyball, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s volleyball. Students will refine volleyball specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-222 Intercollegiate Soccer, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s soccer. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-223 Intercollegiate Soccer, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate men’s soccer. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-224 Intercollegiate Waterpolo, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s water polo. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-225 Intercollegiate Waterpolo, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate men’s water polo. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-226 Intercollegiate Basketball, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s basketball. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-227 Intercollegiate Basketball, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate men’s basketball. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)
ATHL-228 Intercollegiate Swimming, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in
intercollegiate women’s swimming. Students will refine sports
specific skills, improve their strength and conditioning, and
develop team concepts. There will be a focus on the mental
game and how it relates to personal and team success.
Repeatable = 2 times (GC)

ATHL-229 Intercollegiate Swimming, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in
intercollegiate men’s swimming. Students will refine sports
specific skills, improve their strength and conditioning, and
develop team concepts. There will be a focus on the mental
game and how it relates to personal and team success.
Repeatable = 2 times (GC)

ATHL-230 Intercollegiate Softball, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in
intercollegiate women’s softball. Students will refine sports
specific skills, improve their strength and conditioning, and
develop team concepts. There will be a focus on the mental
game and how it relates to personal and team success.
Repeatable = 2 times (GC)

ATHL-231 Intercollegiate Baseball, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in
intercollegiate men’s baseball. Students will refine sports
specific skills, improve their strength and conditioning, and
develop team concepts. There will be a focus on the mental
game and how it relates to personal and team success.
Repeatable = 2 times (GC)

ATHL-262 Coaching Volleyball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive
techniques and strategies as they apply to teaching and/or
coaching volleyball. This course includes the principles of how
to scout games, critique athletic skills, and plan a practice
schedule. Repeatable = 2 times (GC)

ATHL-264 Coaching Soccer
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive
techniques and strategies as they apply to teaching and/or
coaching soccer. This course includes the principles of how to
scout games, critique athletic skills, and plan a practice
schedule. Repeatable = 2 times (GC)

ATHL-265 Coaching Basketball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance 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
athletic skills, and planning a practice schedule. Repeatable =
2 times (GC)

ATHL-266 Coaching Softball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive
techniques and strategies as they apply to teaching and/or
coaching softball. This course includes the principles of how
scouting games, critiquing athletic skills, and planning a practice
schedule. Repeatable = 2 times (GC)

ATHL-267 Coaching Baseball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive
techniques and strategies as they apply to teaching and/or
coaching baseball. This course includes the principles of how
to scout games, critiquing athletic skills, and planning a practice
schedule. Repeatable = 2 times (GC)
BIOL-101A  Principles of Biology — Molecular and Cellular
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: CHEM-101A
Advisory: Eligible for ENGL-151B and ENGL-163; BIOL-130
Accepted For Credit: CSU & UC
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)

BIOL-101B  Principles of Biology — Organisms and Systems
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: BIOL-101A
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to biological principles for biology and health professions majors. Topics emphasized include evolution, systematics, prokaryote and eukaryote diversity (including a survey of the Kingdoms Protista, Fungi, Animalia, and Plantae), anatomy and physiology of animals, plant structure and function, and ecology. This course completes the lower-division core curriculum in biology for biology and pre-health professions majors. (GR)

BIOL-103A  Human Anatomy and Physiology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: Completion within past three years of BIOL-130 and CHEM-109
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course will cover the cell biology, anatomy, histology, and physiology of the following body systems: integumentary, skeletal, muscles, nervous, endocrine, and reproductive systems. Key concepts covered will include homeostasis, structure/function relationships, the physiology of excitable membranes, and interactions of body systems. (GR)

BIOL-103B  Human Anatomy and Physiology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: BIOL-103A
Accepted For Credit: CSU & UC
This course is the second semester of the one year anatomy and physiology sequence. It will cover the cardiovascular, lymphatic, immune, respiratory, renal and digestive systems of the human body. Laboratories include animal and cadaver dissection, histology and physiological recordings. (GR)

BIOL-104A  Basic Human Anatomy and Physiology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: BIOL-130 within past 3 years
Accepted For Credit: CSU & UC
This course surveys the structure and function of the major organ systems of the human body. Emphasis is on homeostasis and regulatory mechanisms. Cadaver demonstrations will be presented. (GR)

BIOL-105  Heredity, Evolution, and Society
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 principles of genetics and evolution for non-science majors. The mechanisms of heredity and evolution will be studied with an emphasis on the human aspect of both subjects. (GC)

BIOL-106  Microbiology
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: BIOL-130 and CHEM-109
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course presents basic microbiology with an emphasis on the medical significance of microorganisms, methods to study and control microbes, and the principles of aseptic technique. (GR)

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
36.00 hrs lecture, 54.00 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 and biotechnology. Topics include plant diversity, structure, growth and development, genetics, molecular biology, genetic engineering, and culture techniques. (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. (GC)
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. (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: ENV-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)

BIOT-101 Environmental Biotechnology Research Projects
40.50 hrs lecture, 58.50 hrs lab
Units: 3.00
Prerequisite: BIOT-105
Accepted For Credit: CSU & UC
This course introduces students to scientific research in the field of biotechnology. It includes literature reviews, research proposal preparation, experimental design, hands-on experimentation, data interpretation and analysis, and presentation of written and oral reports. Students will maintain a professional laboratory notebook, and practice the behavior and skills required in a modern biotechnology lab. (GR)

BIOT-102 Chemical Safety and Hygiene
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Cross-referenced Course: CHMT-102
A course about chemical and lab safety in the workplace with emphasis on hazardous materials and chemical safety; Material Safety Data 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 also be taught. (GR)

BIOT-103 LAB Biotech Summer Bridge
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: This course is open only to Learning Alliance for Bioscience program participants from partner high schools. Students must have successfully completed an articulated LAB biotechnology or biochemistry course prior to participating in this Bridge course.
The Learning Alliance for Bioscience (LAB) Biotech Summer Bridge course provides hands-on experience in the biotechnology laboratory for students who have participated in LAB classes at their high school. Students will perform experiments that involve such techniques as bacterial cell culture, DNA extraction and analysis, PCR, gene cloning, and protein extraction and purification. The theme of the course changes each summer, with the focus on such topics as cell culture, drug discovery, biofuels, environmental biotechnology, etc. (CR)

BIOT-104A HPLC
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Cross-referenced Course: CHMT-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—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 basic HPLC instrumentation, detectors, including UV/vis, photo diode array, column selection, qualitative and quantitative analysis, and troubleshooting HPLC systems. (GR)

...BIOTECHNOLOGY...
Division: Science, Engineering, and Mathematics

BIOT-100 Biotechnology and Society
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
Introduction to the scientific principles and techniques of molecular biology and biotechnology, including recombinant DNA technology and gene cloning, recombinant protein design, and analysis of biomolecules. Discussion of technical, ethical, and safety concerns presented by medical, agricultural, pharmaceutical, and forensic applications of biotechnology. (GR)

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Did you know???
For every $1 California invests in students who graduate from college, it will receive a net return on investment of $4.50.
Source: California Community Colleges Chancellor’s Office

2013-2014 OHLONE COLLEGE CATALOG
BIOT-104B  Gas Chromatography  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Cross-referenced Course: CHMT-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)

BIOT-104C  IR and UV/Vis Spectroscopy  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Cross-referenced Course: CHMT-104C
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, Beers-Lambert’s Law, solvent effects, hypochromic and bathochromic shifts, chromophores, conjugation, and UV spectral analysis. This course is designed for all levels of UV-Vis/IR instrument users. (GR)

BIOT-104D  Nuclear Magnetic Resonance Spectroscopy  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Cross-referenced Course: CHMT-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)

BIOT-105  Introduction to Cell and Molecular Biology  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: MATH-151 and ENGL-151B
Accepted For Credit: CSU & UC
This course introduces basic laboratory research methods (e.g., measuring volume and mass, preparing solutions, using micropipettes, operating a spectrophotometer), and introductory concepts of biology (e.g., chemistry of life, cell structure and function, and classic and modern genetics) to students who are interested in biotechnology, yet have no science background. Also included are strategies to improve success in the classroom such as notetaking, studying, test taking, and other techniques. Students are introduced to the scientific method; they use computers to prepare written reports; they maintain a professional quality laboratory notebook; and they will become familiar with the appropriate behavior and basic skills required in a modern, biological laboratory. (GR)

BIOT-106A  Introduction to Bio-Manufacturing Instruments and Measurements  
54.00 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 micropipettes, pH meters, spectrophotometers, microscopes, and autoclaves. In addition, students master sterile techniques, solution preparation, media 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  
54.00 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-110A1. 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 BIOT-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: BIOL-101A or BIOT-110A1  
Accepted For Credit: CSU  
This course uses lecture and lab approaches to teach students the theory and practice of lab techniques used to construct, search, and analyze simple genomic and cDNA libraries. Students will learn replica plating, southern and northern blotting, ELISA, and the use of non-radioactive oligonucleotide probes for searching libraries. (GR)

BIOT-111B  PCR Primer Design and Optimization and Reverse Transcription  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Prerequisite: BIOT-110A2, BIOT-111A, or BIOL-101A  
Accepted For Credit: CSU  
Students will learn advance topics in PCR, including BLAST searches and DNA alignment protocols for locating minimal variable sequences to use in constructing 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. (GR)

BIOT-113  GMP/GLP  
18.00 hrs lecture  
Units: 1.00  
Accepted For Credit: CSU  
This course gives an introduction to the concepts of GMP (Good Manufacturing Practice) and GLP (Good Laboratory Practice) and their applications in the biotechnological manufacturing of therapeutic products. The course will discuss the concepts of GMP and GLP, the history of GMP/GLP, federal and international regulation for GMP/GLP, and how GMP/GLP are being applied in a biomanufacturing facility. A field trip to a GMP manufacturing plant in the Bay Area is included pending availability. (GR)

BIOT-114  Introduction to Plant Biology  
36.00 hrs lecture, 54.00 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 and biotechnology. Topics include plant diversity, structure, growth and development, genetics, molecular biology, genetic engineering, and culture techniques. (GR)

BIOT-115A  Mammalian Cell Culture Techniques  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Prerequisite: BIOT-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 biotechnology industry. Successful students will qualify to work as technicians in cell culture, manufacturing, and quality control. (GR)

BIOT-115B  Bioreactor Cell Culture Techniques  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Prerequisite: BIOT-115A  
Accepted For Credit: CSU  
This course introduces animal cell culture methods, including use of a bioreactor. Through a series of lectures and hands-on exercises, students will learn the techniques and concepts needed to work in cell culture and biomanufacturing. (GR)
BIOT-117 Immunology
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-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
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Prerequisite: BIOT-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-120A Introduction to SEM Technology
9.00 hrs lecture
Units: 0.50
Advisory: BIOL-130
Accepted For Credit: CSU
Students will learn theory and applications of Scanning Electron Microscopy in biological and non-biological disciplines including historical development of electron microscopes and current high technology applications of Scanning Electron Microscopes. (GR)

BIOT-120B SEM – Biological Applications and Techniques
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Prerequisite: BIOT-120A
Accepted For Credit: CSU
Students will learn theory, operation, and applications of Scanning Electron Microscopy in biological sciences including techniques for biological specimen preparation. (GR)

BIOT-120C SEM – Applications in Physical Science and Engineering
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Prerequisite: BIOT-120A
Accepted For Credit: CSU
Students will learn theory, operation, and applications of Scanning Electron Microscopy in physical sciences. The course will demonstrate the use of microscopic imaging and compositional detectors for problem solving in material sciences, forensics and environmental sciences. (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. (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: BIOT-105 or BIOL-101A
Advisory: 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 rationale 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, and 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: BIOT-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-131L LAB Learning Community
18.00 hrs lecture
Units: 1.00
Advisory: Student has taken LAB biotechnology or biochemistry class in high school
Accepted For Credit: CSU
This course is a learning community designed to support the educational goals of students studying biotechnology or other STEM fields, especially those students who have participated in Learning Alliance for Bioscience biotechnology and/or biochemistry courses (or equivalent) in high school. Each semester the course will cover new content and concepts according to student interests and needs, and new developments in the field of biotechnology. (CR)

BIOT-132L LAB Learning Community, Mentoring Level
18.00 hrs lecture
Units: 1.00
Prerequisite: BIOT-131L
Accepted For Credit: CSU
This course is the second level of a learning community designed to support the educational goals of students studying biotechnology or other STEM fields, especially those students who have participated in Learning Alliance for Bioscience biotechnology and/or biochemistry courses (or equivalent) in high school. Students who have completed the BIOT-131L Learning Community course are eligible to take this mentor-level class. Each semester the course will cover new content and concepts according to student interests and needs, and new developments in the field of biotechnology. (CR)
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 software by using core elements of the SAS system programming language and procedures. (GR)

BIOT-133A Data Analysis Using SAS
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-133A
Prerequisite: BIOT-133 or CS-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)

BIOT-141B SAS Graphing and ODS
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Cross-referenced Course: CS-141B
Advisory: BIOT-133 or CS-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. (GC)

BIOT-143 Advanced SAS Programming
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-143
Advisory: BIOT-133/CS-133 or some experience in SAS programming
Accepted For Credit: CSU
This course provides students with a basic understanding of macro programming and SQL procedure in SAS software. SQL and macro programming can provide more flexibility and power in data management and data analysis. (GR)

BRDC-120 Introduction to Electronic Media
36.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU
This course introduces the history, structure, function, economics, content, and evolution of radio, television, film, and the Internet, including traditional formats and emerging electronic media delivery systems. The social, political, regulatory, ethical, and occupational impact of the electronic media are studied. (GR)

BRDC-123A Radio Operations I
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. (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. (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 broadcasting business. (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 builds upon knowledge and techniques gained in BRDC-123A, BRDC-123B, and BRDC-127A. 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 builds upon knowledge and techniques gained in BRDC-127B with emphasis on advanced content and on-air listener interaction. 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 builds upon knowledge and techniques gained in BRDC-127C with emphasis on live, on location broadcast situations. KOHL Radio serves as the operational lab. (GR)

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. (GR)

BRDC-129  Digital Radio Studio Systems  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Prerequisite: BRDC-123A  
Accepted For Credit: CSU  
Students taking this course are introduced to advanced operational techniques of digital radio studio systems. Lab assignments are completed in the KOHL studios using the RCS Master Control platform. (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. (GR)

BRDC-132  Studio Recording  
54.00 hrs lecture, 18.00 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, digital audio workstation (DAW), and monitoring stations. The course explores various types of microphones, the functions of virtual mixing boards, the characteristics of plug-in signal processors, and recording techniques. (GR)

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" AMPEX tape through BETA, current formats including DV and HD. Students also develop storytelling skills. (GR)

BRDC-135  Final Cut Pro Suite-Master  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
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. (GR)

BRDC-136  Digital Video and Lighting  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
The basics of shooting a story using professional video cameras under the guidance of broadcast industry professionals. Course covers history of news recording from film to videotape and current memory stick formats. Students develop skills in video production, news gathering, lighting, and storytelling. (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. (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 story using AVID non-linear editing system. Students also develop storytelling skills. (GC)

BRDC-141 Live TV Newscast
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students write, report, anchor, shoot, and edit a weekly newscast which is then broadcast live on local cable and the Internet. (GC)

BRDC-142 Live TV Studio Production
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students write, report, shoot, and edit feature stories and human-interest stories for broadcast on the college’s newscast, which are then broadcast live on local cable and the Internet. (GC)

BRDC-144 Sports Broadcasting
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: BRDC-136, BRDC-138, BRDC-141, BRDC-142, BRDC-148, or BRDC-152
Accepted For Credit: CSU
Train to do on air play-by-play or be part of the behind-the-scenes production crew on live sports highlights shows and the live broadcast of Ohlone College sporting events. (GC)

BRDC-148 Live Television Production
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Students learn to run studio cameras, teleprompter, switcher, audio board, and direct a live broadcast. Students participate in a live weekly newscast. (GC)

BRDC-152 Film and Video Production
54.00 hrs lecture, 72.00 hrs lab
Units: 4.00
Advisory: BRDC-134, BRDC-135, BRDC-138, BRDC-144
Accepted For Credit: CSU
Advanced film and video production techniques, with emphasis on lighting and short film production. (GC)

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)

BUSINESS ADMINISTRATION

Division: Arts and Social Sciences

Financial Accounting
90.00 hrs lecture
Units: 5.00
Accepted For Credit: CSU & UC
This course introduces accounting theory, procedures, and practices relating to financial accounting. (GR)

Managerial Accounting
90.00 hrs lecture
Units: 5.00
Prerequisite: BA-101A
Accepted For Credit: CSU & UC
This course is an introduction to managerial accounting including the analysis and interpretation of accounting data to aid management. (GR)

Principles of Economics-Macroeconomics
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-152 or MATH-153
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Introduction to Macroeconomics. The topics explored include supply and demand, government spending, taxation, business cycles, fiscal policy, monetary policy, money and banking system, inflation, unemployment, national income, and international economics. (GR)

Principles of Economics-Microeconomics
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-152 or MATH-153
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Introduction to Microeconomics. The topics explored include demand, supply, market structure, pricing policies, labor market, elasticity and its application, public goods, common resources, and environmental policy. (GR)

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)

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)

Computerized Accounting for Small Business
22.50 hrs lecture, 13.50 hrs lab
Units: 1.50
Advisory: Concurrent enrollment in BA-101A
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. C-ID BUS 110 (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-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: ENGL-101A and PSY-101
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-140 Global Business Immersion
36.00 hrs lecture
Units: 2.00
Advisory: ENGL-151A
Accepted For Credit: CSU
This course will revolve around a three-week study abroad program based in a particular country, focusing on global business in that country. Students will have an opportunity to explore directly the widest possible variation of business environments and practices. The course will also review the cultural, historical, and political environments which affect the business practices in that country. (GC)

BA-141A Business Law
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
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 Law
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
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-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-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, sponsorship, sales, revenue, and marketing to the sport and fitness industry. The areas covered will include high school/collegiate athletics, professional sports, and the fitness club industry. (GC)

BA-144  Sports Management
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. (GR)

BA-160A  Computer Graphics I
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: ART-160A, GA-160A, CS-160A
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. (GC)

BA-160B  Computer Graphics II
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: ART-160B, GA-160B, CS-160B
Prerequisite: ART-160A, BA-160A, GA-160A, CS-160A
Accepted For Credit: CSU
This course is a continuation of BA-160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. The students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. (GC)

BA-192  Service Learning Internship
72.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Service learning is a teaching and learning method that integrates community service with academic coursework as it focuses on critical, reflective thinking. (GC)

BUSINESS SUPERVISION MANAGEMENT

Division: Business, Technology, and Learning Resources

BSM-101  Fundamentals of Supervision
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course provides an overview of supervisory principles and practices from defining the supervisor’s role to the challenges of ensuring effective employee communications. Topics also include staffing, professional development, workplace safety, and conflict resolution. (GC)

BSM-102  Interpersonal Relations in the Workplace
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers interpersonal communication, employee-employer relations, cultural awareness, conflict resolution, stress management, and team development. (GC)

BSM-103  Management of Human Resources
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers the principles and practices of human resources for first line and above managerial personnel: employment/industrial relations, equal employment opportunity, sexual harassment, training and development, wage/salary/benefit administration, job performance reviews, and safety/accident prevention. (GR)

BSM-105  Operations Management
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course covers the principles of operations management: globalization, forecasting, materials/production/project management, and total quality management principles and practices. (GC)

BSM-106  Communication for Supervisors
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course covers the principles and practices for the techniques of communication in the workplace including active listening, intercultural communication, verbal and non-verbal communication, conducting meetings, and effective presentations. (GC)
BSM-108 Leadership in Organizations
5.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
This course provides an overview of principles of leadership, supervision, power and politics in the workplace; team decision-making/problem solving; motivating employees; coaching; social responsibility and business ethics. (GC)

CHMT-102 Chemical Safety and Hygiene
4.50 hrs lecture, 13.50 hrs lab
Units: 1.00
Cross-referenced Course: BIOT-102
A course about chemical and lab safety in the workplace with emphasis on hazardous materials and chemical safety; Material Safety Data 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 also be taught. (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—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 basic HPLC instrumentation, detectors, including UV/vis, photodiode 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)

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)

Did you know?
32% of Ohlone students are Asian, 24% are Caucasian, 19% are Hispanic, 8% are Filipino, and 5% are African-American.
CHEM-101B  General Chemistry  
54.00 hrs lecture, 108.00 hrs lab  
Units: 5.00  
Prerequisite: CHEM-101A  
Accepted For Credit: CSU & UC  

Chemistry 101B continues the study of chemistry taught in Chemistry 101A. Theory and experimental applications are emphasized. This course is designed for science-oriented majors including biology, chemistry, engineering, and pre-professional health. Topics include kinetics, equilibrium, acids and bases, solubility, thermodynamics, electrochemistry, nuclear chemistry, properties of organic molecules, acids and bases, buffers, proteins, and compounds containing transition elements, organic chemistry, and coordination compounds. This course provides students with the necessary foundation for Organic Chemistry, CHEM-112A. (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 and mathematical calculations. 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 a preparation for students planning to take college level Chemistry 101A. This course is recommended for students who have been away from high school chemistry for more than two years or those whose previous chemistry background is inadequate for Chemistry 101A. (GR)

CHEM-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. The course is open to all students; no previous chemistry is required. This course satisfies the requirements of nursing, biotechnology, and related majors that require one semester of chemistry. This course does not meet the prerequisite for Chemistry 101A. (GR)

CHEM-112A  Organic Chemistry  
54.00 hrs lecture, 108.00 hrs lab  
Units: 5.00  
Prerequisite: CHEM-101B  
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-112A  
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. (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)
CHICANO/LATINO STUDIES

Division: Arts and Social Sciences

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-102A Chicana/o History I
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-102A
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
Covers the history of Chicanas and Chicanos from Pre-Colombian times to 1850. Emphasizes the political, economic, and social influences of Pre-Columbian America, Spain, Mexico, and the United States. Includes a study of the United States Constitution. (GR)

CHS-102B Chicana/o History II
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-102B
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
Covers the history of the Mexican-American experience from 1850 to the present day. Emphasizes the political, economic, and social experiences of the Mexican American people under the influences of Mexico and the United States. Includes a study of the Constitution of California. (GR)

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: ENGL-163; eligible for ENGL-101A
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: Language and Communication

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 communicate 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 or two years of high school Chinese
Accepted For Credit: CSU & UC
This course is a continuation of CHIN-101A. Students will continue to acquire listening, speaking, reading and writing skills in Chinese (Mandarin) and will 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 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
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-121B Mandarin Chinese Conversation II
54.00 hrs lecture
Units: 3.00
Prerequisite: CHIN-121A
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: Language and Communication

**COMM-100 Introduction to Communication Theory**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: ENGL-101A
- Accepted For Credit: CSU & UC
- Analyze and evaluate the major communication theories and research in the communication studies field. C-ID COMM 180 (GR)

**COMM-101 Computer Mediated Communication**
- 54.00 hrs lecture
- Units: 3.00
- Accepted For Credit: CSU
- Explores various human relationships using computer mediated communication (CMC) such as Twitter, Facebook, email, blogs, online games, and business networking sites. This is a survey, social science course that addresses the theoretical issues related to CMC such as how we represent identity, form and maintain relationships, and the various levels of mass media consumption. (GR)

**COMM-108 Visual Communication**
- 54.00 hrs lecture, 36.00 hrs lab
- Units: 3.00
- Cross-referenced Course: MM-108
- Accepted For Credit: CSU & UC
- 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. C-ID JOUR 170 (GR)

COMPUTER APPLICATIONS AND OCCUPATIONAL TECHNOLOGY

Division: Business, Technology, and Learning Resources

**CAOT-101A Computer Applications I**
- 27.00 hrs lecture, 27.00 hrs lab
- Units: 2.00
- Cross-referenced Course: CS-101A
- Advisory: CS-101
- Accepted For Credit: CSU
- This course is the first in a two part series covering topics which include how to use Word documents, spreadsheets, database management programs, presentation graphics, and how to effectively use personal information manager programs. Students will also learn how to integrate program components. (GC)

**CAOT-101B Computer Applications II**
- 27.00 hrs lecture, 27.00 hrs lab
- Units: 2.00
- Advisory: CAOT-101A
- Accepted For Credit: CSU
- This course is the second in a two part series covering topics which include how to use Word documents, spreadsheets, database management programs, presentation graphics, and how to effectively use personal information manager programs. Students will also learn how to integrate program components. (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. (GR)
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Cross-referenced Courses</th>
<th>Notes</th>
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<td>Beginning Keyboarding</td>
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<td>3D Drafting with AutoCAD</td>
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### Did you know? 
In a June 2012 article published in www.Schools.com, Ohlone was named one of the top 25 California community colleges based on academic prowess, rich tradition, and beautiful surroundings.
COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY

Division: Business, Technology, and Learning Resources

CNET-101 Introduction to Computers and Information Technology
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-101
Advisory: Eligible for ENGL-151B and ENGL-163; concurrent enrollment in CS-101A
Accepted For Credit: CSU & UC

This course is a general introduction to the area of computers and information technology and is designed for all students. This course will examine a broad overview of topics including software, hardware, the networking of computer systems, and information technology. Students will explore the implications of this technology with regard to today’s information society. (GC)

CNET-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. (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: ENGI-114
Accepted For Credit: CSU

This course is intended for students of all disciplines who are interested in how everyday things work. It is an introduction to some of the fundamental science concepts underpinning high technology, emphasizing everyday devices and practical experience, for the development of scientific and computer literacy. Students will experiment with technology to discover principles of science. Concepts such as force, work, energy, power, liquids and gasses, heat transfer, electricity, magnetism, electronics, light, materials science, and time are explored through experimentation and observation. Students will experience through class demonstrations and hands-on laboratories the concepts presented by the instructor. Phenomena such as how computers convert data, how iPods transmit sound, how electronic thermometers measure temperature, how solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)

CNET-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 course will understand how scientific innovation can affect their lives either directly or indirectly. The course 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. (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 to 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. The student will have the opportunity to extend the mechanical functionality of the base robot and program sensors they attach to the robot. (GR)

CNET-120 VMware: Install, Configure, Manage
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU

This hands-on training course explores installation, configuration, and management of VMware vSphere, which consists of VMware ESXi/ESX and VMware vCenter Server. Upon completion of this course students can take the examination to become a VMware Certified Professional. The course is based on ESXi 4.0, ESX 4.0, and vCenter Server 4.0. (GC)

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
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 practice helps 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 course addresses answers to frequently asked questions concerning backup and recovery. (GC)

CNET-137  Introduction to SQL
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-137
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 built-in packages. (GC)

CNET-140A  Linux Installation and Configuration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
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 course is preparation for Sair Linux and GNU certification. (GC)

CNET-140B  Linux System Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
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. (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. (GC)

CNET-142A  Linux Networking
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
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, rsh, nis, web, mail, dns, samba, and dhcp. This course is preparation for Sair Linux and GNU certification. (GC)

CNET-142B  Linux Security
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
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. (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 and features of the UNIX/Linux operating system, including origin and evolution; hardware and software; both command-line and graphical user interface; files and file system structure; system services; processes; background processing; scheduling; file security; the vi editor; file sharing; and redirection and piping. Students are also introduced to shell programming and a variety of UNIX/Linux command-line and graphical tools. (GR)
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 the tools and concepts used while working with a UNIX/Linux-based computer system. It introduces UNIX shells, comparing and contrasting the major ones. Students will learn to write shell scripts using basic commands: vi, sed, and awk; then use those tools to write scripts for the Bourne, C, Korn, and Bash shells. Students will write shell script programs to exercise their understanding of tools and concepts. This course will be taught using a combination of lectures, demonstrations, discussions, and hands-on labs. (GR)

CNET-149 PERL Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-149
Advisory: CS-102
Accepted For Credit: CSU & UC
This course presents the fundamental knowledge and skills needed to solve problems using the PERL language. This language is particularly well suited to manipulating textual data and remains 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 study of 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. (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
This course prepares students for the knowledge and skills required to successfully install, operate, and troubleshoot a small branch office network. The course 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. (GC)

CNET-155A Network Fundamentals
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. (GC)

CNET-155B Routing Protocols and Concepts
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: CNET-155A
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. (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. (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. (GC)

CNET-157 TCP/IP and Internetworking
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-157
Prerequisite: CS-152 or CNET-152
Advisory: CS-101 or CNET-101
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. (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. (GC)

CNET-160A  Microsoft Client Operating Systems
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course provides students with the knowledge and skills necessary to set up and support the current Windows Client Operating System, and prepare for the corresponding Microsoft Certified Technology Specialist (MCTS) exam. Students will get practical experience installing, administering, and troubleshooting this next-generation desktop environment. (GR)

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. (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. (GC)

CNET-162  Windows Network Infrastructure Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course prepares students as system administrators who will be responsible for installing, configuring, managing, supporting a secure network infrastructure, and implementing fault tolerant storage technologies that use the Microsoft Windows Server products. This course helps students prepare for the corresponding Microsoft exam, a core requirement on the MCITP Server Administrator and Enterprise Administrator tracks. (GC)

CNET-164  Microsoft Directory Services
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course prepares students to install, configure, and administer Microsoft Windows Active Directory directory services. The course covers configuring, managing, and supporting user and computer accounts, groups, Domain Name System zones and client settings; group policy objects; the new Active Directory Lightweight Directory Service and Active Directory Rights Management Service; backup and recovery; and communication security. (GC)

CNET-165A  Designing a Secure Microsoft Windows Network
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
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. (GC)

CNET-165B  Microsoft Internet Security and Acceleration Server (ISA)
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Students will gain the knowledge and skills to deploy and manage Microsoft Internet Security and Acceleration (ISA) Server 2000 in an enterprise environment and experience setting up a Web site. This course prepares students for MCP+Internet/MCSE certifications. (GC)

CNET-166  Microsoft Server Operating Systems
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course focuses on Windows Server 2008 administration. It covers planning server roles; maintaining server security; planning data storage, network load balancing, and server backups; managing software deployment and versioning; monitoring IPv6, server performance and capacity, and Active Directory replication; scheduling server deployments; and designing a rollback contingency plan. (GC)
CNET-166A  Developing Windows Server  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course will provide students with the knowledge and skills to install and deploy Windows Server 2008 R2. This course also will teach students how to automate server deployment, as well as provide guidelines, best practices, and considerations that will help to migrate existing services to Windows Server 2008 R2. (GC)

CNET-166B  Configuring and Troubleshooting Internet Information Services  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course is for students who want to become a Web Server Administrator in an enterprise environment. Also, students who are assuming a new role requiring skills to manage content served by an IIS 7.0 Web Server over an intranet, extranet, and internet would be interested in this course. (GC)

CNET-166C  Configuring and Troubleshooting Windows Terminal Services  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course provides students with the knowledge and skills to configure, manage, monitor, and troubleshoot a Terminal Services (TS) environment. The course focuses on configuring of TS core functionality, licensing, Gateway, and Web Access. (GC)

CNET-167A  Administering Microsoft Exchange Server 2010  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course is to teach students the knowledge and skills necessary to install, configure, and administer Microsoft Exchange Server 2010 and prepare for the corresponding Microsoft Certification Exam 70-662. (GC)

CNET-168A  Maintaining a Microsoft SQL Server 2008 Database  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course will provide students with the knowledge and skills to maintain a Microsoft SQL Server 2008 database. The course focuses on teaching students how to use SQL Server 2008 product features and tools related to maintaining a database. Prepares student for the Microsoft Certification Exam 70-432 TS: Microsoft SQL Server 2008, Implementation and Maintenance. (GC)

CNET-170  Network Security  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
This course provides an in-depth study of Network Security fundamentals and provides a comprehensive overview of network security. The course 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. (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. (GC)

CNET-182  Advanced Routing (CCNP ROUTE)  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
This is the first of three 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 ROUTE) 642-901 exam. (GC)

CNET-184  Advanced Switching (CCNP SWITCH)  
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 multilayer switched networks, to create and deploy a global intranet, and to implement basic troubleshooting techniques in environments that use Cisco multilayer switches for client hosts and services. This course also enables learners to improve traffic flow, reliability, redundancy, and performance for LAN switching that is self-supported or transported via a service provider. This course will prepare students for the Cisco Certified Networking Professional (CCNP SWITCH) exam. (GC)

CNET-186  Troubleshooting IP Networks (CCNP TSHOOT)  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: CNET-182 and CNET-184  
Accepted For Credit: CSU  
This course teaches students how to monitor and maintain complex, enterprise routed and switched IP networks. Skills learned include the planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, in a systematic and ITIL-compliant approach. Extensive labs emphasize hands-on learning and practice to reinforce troubleshooting techniques. (GC)

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**Did you know?**

Californians with a college degree will earn $1,340,000 more than their peers with only a high school diploma. 
Source: California Community Colleges Chancellor's Office
COMPUTER SCIENCE
Division: Business, Technology, and Learning Resources

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-101A
Accepted For Credit: CSU & UC
This course is a general introduction to the area of computers and information technology and is designed for all students. This survey course will examine a broad overview of topics including software, hardware, the networking of computer systems, and information technology and surveys of programming languages. The student will explore the implications of this technology with regard to today’s information society. (GC)

CS-101A  Computer Applications I
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Cross-referenced Course: CAOT-101A
Advisory: CS-101
Accepted For Credit: CSU
This course is the first in a two part series covering topics which include how to use Word documents, spreadsheets, database management programs, presentation graphics, and how to effectively use personal information manager programs. Students will also learn how to integrate program components. (GC)

CS-102  Introduction to Computer Programming Using C++
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-152 or MATH-153
Advisory: CS-101 or CNET-101
Accepted For Credit: CSU & UC
This course is an introduction to computer programming. Its primary objective is to teach problem solving using the C++ programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. This course is designed primarily for computer science and related transfer majors. (GC)

CS-104A  Introduction to .NET Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: MATH-152 or MATH-153; CS-101 or CNET-101
Accepted For Credit: CSU & UC
This course covers the skills necessary to create structured Windows Applications. The course 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. (GC)

CS-104B  Advanced .NET Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: CS-104A
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. (GC)

CS-104D  Introduction to 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. (GC)

CS-113  Discrete Mathematics for Computers
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: MATH-163
Prerequisite: MATH-188
Advisory: MATH-101A and MATH-101B
Accepted For Credit: CSU & UC
This course is an introduction to discrete mathematics and its applications. Topics to be covered include logic, sets, relations, functions, combinatorics, graph and tree theory, Boolean algebra, proofs, and algorithms. Applications to computer studies and other related areas will be presented. (GC)

CS-116  Object-Oriented Programming Using C++
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CS-102
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 the realm of 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. (GR)

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-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 use of recursion; and the application of these tools primarily in 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 or CNET-101
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. (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-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-137 Introduction to SQL
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CNET-137
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-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. (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 and features of the UNIX/Linux operating system, including origin and evolution; hardware and software; both command-line and graphical user interface; files and file system structure; system services; processes; background processing; scheduling; file security; the vi editor; file sharing; and redirection and piping. Students are also introduced to shell programming and a variety of UNIX/Linux command-line and graphical tools. (GR)

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 the tools and concepts used while working with a UNIX/Linux-based computer system. It introduces UNIX shells, comparing and contrasting the major ones. Students will learn to write shell scripts using basic commands: vi, sed, and awk; then use those tools to write scripts for the Bourne, C, Korn, and Bash shells. Students will write shell script programs to exercise their understanding of tools and concepts. This course will be taught using a combination of lectures, demonstrations, discussions, and hands-on labs. (GR)
**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 the PERL language. This language is particularly well suited to manipulating textual data and remains 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: ENGL-151A  
Accepted For Credit: CSU  
This course will focus on finding and evaluating information and learning resources on the Internet for academic research, and also cover the principles of Internet searching, strategies, and citation styles. (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: 3.00  
Cross-referenced Course: CNET-157  
Prerequisite: CS-152 or CNET-152  
Advisory: CS-101 or CNET-101  
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. The course prepares the student to pass the certification exam, Internetworking Microsoft TCP/IP, to become an MCP/MCSE. (GR)

**CS-160A**  **Computer Graphics I**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160A, BA-160A, GA-160A  
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. (GC)

**CS-160B**  **Computer Graphics II**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160B, BA-160B, GA-160B  
Prerequisite: CS-160A, GA-160A, ART-160A, or BA-160A  
Accepted For Credit: CSU  
This course is a continuation of CS-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. (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-101A  
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 Dynamic Hypertext Markup Language (DHTML) techniques, and working with extensible Markup Language (XML) and extensible Stylesheet Language (XSL). (GC)

**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. (GC)

**CS-172**  **Servlets and JSP**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-170  
Accepted For Credit: CSU  
This is an Internet programming and application course using Java technology, including Servlet, JSP, Session tracking, JavaBeans, and JDBC. (GC)

**CS-173**  **Java EE and EJB**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-170  
Accepted For Credit: CSU  
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. (GC)

**CS-175**  **From JavaScript to AJAX**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-101  
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 using AJAX. (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). (GC)
CONSUMER FAMILY SCIENCES
Division: Health Sciences and Environmental Studies

CFS-104A Current Issues in Child Nutrition
36.00 hrs lecture
Units: 2.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU
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. The course 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)

DANCE
(See Theatre and Dance)

DEAF PREPARATORY PROGRAM
Division: Deaf Studies

DEAF-116A ESL Vocabulary I in American Sign Language
36.00 hrs lecture
Units: 2.00
Advisory: Basic ability to communicate in ASL
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. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-118A ESL Writing I in American Sign Language
54.00 hrs lecture
Units: 3.00
Advisory: Basic ability to communicate in ASL
This course is the first course of a two-semester ESL writing program for Deaf students. 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. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-118B ESL Writing II in American Sign Language
54.00 hrs lecture
Units: 3.00
Advisory: Basic ability to communicate in ASL
This course is 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 and essay development. Designed for students whose native language is not English. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-119A ESL Reading I in American Sign Language
54.00 hrs lecture
Units: 3.00
Advisory: Basic ability to communicate in ASL
This course is 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. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-119B ESL Reading II in American Sign Language
54.00 hrs lecture
Units: 3.00
Advisory: Basic ability to communicate in ASL
This course is 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. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-120A Basic Grammar I
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This course is designed for students who wish to develop their English grammar skills through exposure and practice. Students will have opportunities to learn basic grammar rules through interactive exercises and studying sentence parts and writing sentences. Not applicable to associate degree. Repeatable = 5 times (GR)
DEAF-120B Basic Grammar II
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-120A
This course is 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. Taught in ASL only. Not applicable to 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 designed for Deaf/Hard of Hearing students who wish to further develop their grammar skills through practice and application. Students will have opportunities to learn grammar rules through interactive exercises, studying sentence parts, and writing sentences. Taught in ASL only. Not applicable to 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. Taught in ASL only. Not applicable to 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 Hard of Hearing students. The emphasis is on increased practical reading skills and vocabulary. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

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 Hard of Hearing students. The emphasis is on increased practical reading skills and vocabulary. Taught in ASL only. Not applicable to 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/Hard of Hearing students who wish to increase vocabulary and expand knowledge about various topics related to the world in which we live. The course will also promote practice in reading. Taught in ASL only. Not applicable to 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 Hard of Hearing students who wish to further increase vocabulary and knowledge about various topics related to real world. The course will also promote practice in reading. Not applicable to 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, consumerism, and employment. This is the first part of a two-semester course. Taught in ASL only. Not applicable to 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. Taught in ASL only. Not applicable to 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. Taught in ASL only. Not applicable to 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 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. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-143 Deaf Vocational Awareness
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: 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. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

Did you know?
Nearly ¼ of all Chicanas and Chicanos who receive doctorates first attend a community college.
Source: Community College League of California
DEAF-145B Job Seeking Strategies for Deaf Students
54.00 hrs lecture
Units: 3.00
Advisory: ASL fluency
This course allows student job seekers to evaluate their own interests, skills, and aptitudes and relate them to employment. Students will develop strategies and practice specific skills necessary for a successful job hunt to result in gainful employment. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-146 Work Experience Seminar
36.00 hrs lecture
Units: 2.00
Advisory: ASL fluency
Designed for students to get training while having their work experience class at Ohlone College. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-147A Citizenship: Introduction
54.00 hrs lecture
Units: 3.00
This course is the first of four courses designed for Deaf/Hard of Hearing students who need to develop pre-employment readiness. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-147B Citizenship: One’s Role
54.00 hrs lecture
Units: 3.00
Prerequisite: DEAF-147A
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. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-148 Community Service
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
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. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-157A English Composition Techniques
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This course is the first of two courses with strong emphasis on refinement of English composition skills as applied through paragraph development. Students are exposed to a variety of well-written essays and guided through an analysis of structure, content, and style. Taught in ASL only. Not applicable to associate degree. Repeatable = 2 times (GR)

DEAF-157B Principles of Composition
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This course is the second of two courses with a strong emphasis on refinement of English composition skills as applied through paragraph and essay development. Students are exposed to a variety of well-written paragraphs and essays and guided through an analysis of structure, content, and style. Taught in ASL only. Not applicable to associate degree. Repeatable = 2 times (GR)

DEAF-159A Reading Strategies
54.00 hrs lecture
Units: 3.00
Prerequisite: Fluency in ASL
This course is the first of two courses with an emphasis on introduction to reading and study techniques. Students learn various skills to analyze a variety of readings including essays and news articles. Taught in ASL only. Not applicable to associate degree. Repeatable = 2 times (GR)

DEAF-159B Reading Techniques
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This course is the second of two courses with an emphasis on introduction to reading and studying techniques. Students learn various skills to analyze a variety of readings including essays and news articles. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-160A Personal and Social Awareness I
36.00 hrs lecture
Units: 2.00
Advisory: ASL fluency
This is a practical course designed to explore issues relevant to Deaf college students. Group activities will focus on personal challenge and growth. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-160B Personal and Social Awareness II
36.00 hrs lecture
Units: 2.00
Prerequisite: DEAF-160A
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. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-161 Introduction to the Deaf Community
54.00 hrs lecture
Units: 3.00
Advisory: ASL fluency
This is a basic course on the culture of American Deaf people. Cultural norms of Deaf people are examined and current issues within the Deaf community are discussed. Community resources are presented. Taught in ASL. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-165 Study Techniques: MS Word, MS Excel, and MS Access
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: Fluency in ASL
Introductory use of Microsoft Word, Microsoft Excel, and Microsoft Access to prepare students for college-level work. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-166 Study Techniques: Introduction to Multimedia Photoshop, MS PowerPoint, and MS Publisher
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: Fluency in ASL, DEAF-165
Introductory course in the use of PhotoShop, Microsoft PowerPoint, MS Publisher, and use of digital camera to prepare students for college-level work. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)
DEAF-175A  IUPP Grammar I
54.00 hrs lecture
Units: 3.00
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. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-175B  IUPP Grammar II
54.00 hrs lecture
Units: 3.00
This course is designed for students who have successfully completed DEAF-175A and wish to continue to strengthen and refine their grammar skills. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GC)

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. Taught in ASL only. Not applicable to 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. Taught in ASL only. Not applicable to 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. Taught in ASL only. Not applicable to 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. Taught in ASL only. Not applicable to 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 summaries and well-developed, well-organized essays. The course is designed to prepare students who are fluent in ASL for college-level English composition and academic course work. Taught in ASL only. Not applicable to 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. Taught in ASL only. Not applicable to 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. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-189C  Intensive College 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. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)
DEAF-191 Human Potential Seminar
36.00 hrs lecture
Units: 2.00
Prerequisite: Limited to 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. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-311 Introduction to American Deaf Culture
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU; Gallaudet
Introduction to the social, cultural, and sociolinguistic characteristics of Deaf people. Taught in ASL. (GC)

DEAF-312 Linguistics of ASL
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This is an introduction to the language of American Deaf people. Grammar, morphology, phonology, and semantics of American Sign Language are covered. Taught in ASL. (GR)

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 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. (GR)

DEAF-331 Counseling 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 designed to provide students with skills that are needed to work with Deaf students in a school setting. Taught in ASL. (GR)

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. Taught in ASL. (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
Accepted For Credit: CSU
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. Taught in ASL. (GR)

DEAF-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. Not applicable to associate degree. Repeatable = 5 times (NG)

EARLY CHILDHOOD STUDIES
Division: Health Sciences and Environmental Studies

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 examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity. C-ID ECE 120 (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 examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences, and analyze characteristics of development at various stages. (GR)

ECS-302 Introduction to Curriculum
72.00 hrs lecture
Units: 4.00
Advisory: Eligible for ENGL-101A; ECS-300 and ECS-301
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. C-ID ECE 130 (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
An examination of the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizing historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. C-ID CDEV 110 (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. C-ID ECE 200 (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. C-ID ECE 220 (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
Accepted For Credit: CSU
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-307A4
Advisory: ECS-300, ENGL-101A
Accepted For Credit: CSU
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 teacher. (GR)

ECS-307C4  Practicum – Field Experience
Children in the Child Lab
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Prerequisite: ECS-307A4, ECS-307B4
Advisory: ENGL-101A, ECS-300
Accepted For Credit: CSU
This course offers direct experience working with and observing young children. Students will be trained in the planning, implementing, and evaluating of program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Student 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: Eligible for 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
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 supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. C-ID ECE 230 (GR)

ECS-310  Music and Movement Curriculum for Young Children
54.00 hrs lecture
Units: 3.00
Advisory: ECS-300, ECS-301, ECS-302, ENGL-101A
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, instrum ents, 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  
Advisory: Eligible for ENGL-101A; ECS-300, ECS-301, ECS-302  
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 sensory stimulation will be explored. (GR)

**ECS-312**  The Development of Literacy in Early Childhood Education  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course examines how children gain oral language and listening skills leading to the development of writing and reading. It will include curriculum development for an emergent literacy environment. (GR)

**ECS-313**  Science and Math Curriculum for Young Children  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A and ECS-301  
Accepted For Credit: CSU  
This course provides guidelines for preparing math and science curriculum for the young child. 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 and ECS-312  
Accepted For Credit: CSU  
This course provides an in-depth experience with literature for children ages 0-8. The course introduces students to the development of reading in young children, their interests, diversity and reading skill levels of young children. Content to be covered includes the historical development of children’s literature, effective techniques used to introduce literature, books, poetry, other reading media, storytelling and reading to children. Students will learn how to extend literature into other curriculum areas. (GR)

**ECS-316**  Children with Special Needs in Programs for Young Children  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
The course focuses on recognizing and distinguishing the variety of special needs exhibited by children 0 through 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  
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-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. Not applicable to associate degree. (CR)

**ECS-321**  Supervision in Early Childhood Programs  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-300, ECS-301, and ECS-303  
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  
Prerequisite: ECS-302, ECS-308; eligible for 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)

**ECS-324**  Parenting  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This introductory course is an exploration of the role and relationships involved in parenting. It explores the historical context and changes in perceptions and responsibilities assigned to parents in American society. Topics include history of parenting, parenting styles, beliefs and values, skills and methods, relationships, and basic child development. (GR)
ECS-325A  Workshop Series for Parents and Teachers  
9.00 hrs lecture  
Units: 0.50  
This course is a workshop for parents and teachers covering specific topics in the field of Early Childhood Studies. The theme and content varies and is determined by the Early Childhood Studies instructors. Not applicable to associate degree. (CR)  

ECS-327  School Age Child Development  
54.00 hrs lecture  
Units: 3.00  
Advisory: ECS-301, ECS-302, ENGL-101A  
Accepted For Credit: CSU  
This course is the study of the developing child during the school-age years. It focuses on the developmental characteristics; influences on development; individual differences; physical, social-emotional, cognitive, and creative development. It examines the role of the teacher in programs designed for the school-age child. (CR)  

ECS-328  Curriculum for the School Age Child  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-301 and ECS-302  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course studies the fundamentals of planning, implementing, and evaluating curriculum for programs serving school-age children and their families. The emphasis is on developing and providing age appropriate activities, environment, and relationships in the context of an integrated and active curriculum. (CR)  

ECS-330  Second Helping for Family Childcare Providers  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: ECS-320, 18 months experience in a licensed program  
This is the second course for Family Child Care Providers. It covers the role of the provider, the task of managing, relationships between caregivers and parents, and providing environments for children. (GC)  

EDUC-105  Math and Science Future Teacher Seminar  
54.00 hrs lecture  
Units: 3.00  
Advisory: MATH-151 and ENGL-101A  
Accepted For Credit: CSU & UC  
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 or secondary school. (CR)  

EDUC-191A  Tutor Training I  
9.00 hrs lecture  
Units: 0.50  
This course covers effective methods for tutoring. The do's and don'ts of tutoring, communication skills, and handling challenging situations are a few of the topics covered. 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. (CR)  

EDUC-191AL  Tutor Training I Lab Consultant  
27.00 hrs lab  
Units: 0.50  
Students will apply skills related to the concepts learned in the EDUC-191A theory course. Students are employed or volunteer to work in tutoring labs throughout Ohlone. Student tutors in this class will use techniques such as do's and don'ts of tutoring, communication skills, and handling challenging situations when tutoring other students in the lab. Contributes to eligibility for College Reading and Learning Association (CRLA) tutor certification, accepted at more than 500 universities. (CR)  

EDUC-191B  Tutor Training II  
9.00 hrs lecture  
Units: 0.50  
This course continues on from EDUC-191A with additional effective methods of tutoring. Learning styles, changing study behaviors, brain dominance theories, and being inventive are among the topics covered. Can lead to CRLA (College Reading and Learning Association) tutor certification, accepted at more than 500 universities. (CR)  

EDUC-191BL  Tutor Training II Lab Consultant  
27.00 hrs lab  
Units: 0.50  
Students will apply skills related to the concepts learned in the EDUC-191B theory course. Student tutors in this class will use techniques such as learning styles, changing study behaviors, and brain dominance theories when tutoring other students in the lab. Contributes to eligibility for College Reading and Learning Association (CRLA) tutor certification, accepted at more than 500 universities. (CR)
ENGINEERING

Division: Science, Engineering, and Mathematics

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 explores the field of engineering and its different branches. It provides hands-on design projects including experimentation, team work, ethics, and the application of basic scientific principles to practical situations. (GC)

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 through class demonstrations and hands-on laboratories the concepts presented by the instructor. Phenomena such as how computers convert data, how iPods transmit sound, how electronic thermometers measure temperature, how solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)

ENGI-115 Engineering Graphics and Design
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B, 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 and 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-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. (GC)

ENGI-140 Materials Engineering
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CHEM-101A and PHYS-140
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)
ENGGINEERING TECHNOLOGY
Division: Science, Engineering, and Mathematics

ETEC-106  Electronics for Technology
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: Knowledge of basic algebra and trigonometry relations
Accepted For Credit: CSU
This class is an introduction to electricity and electronic devices. Students will learn the basic theory of electricity and apply that knowledge to build, test, and troubleshoot electrical circuits. In the lab, students will learn to operate the test and measurement instrumentation necessary to support construction of electrical circuits. (GR)

ETEC-107  Properties of Materials
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Advisory: MATH-151
Accepted For Credit: CSU
This course surveys materials, properties, and applications for technicians. Topics will include a brief introduction to the properties of metals, polymers, ceramics, and composites. (GR)

ENGL-101A  Reading and Written Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ENGL-151B and ENGL-163, or appropriate skill level demonstrated through the placement test process
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. C-ID ENGL 100 (GR)

ENGL-101B  Reading and Composition (Introduction to Literature)
72.00 hrs lecture
Units: 4.00
Prerequisite: ENGL-101A
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)

Did you know???
Nearly 50% of all California veterans receiving GI educational benefits attend a California community college for workforce training, to earn an associate degree, or to work toward transferring to a baccalaureate university.
Source: California Community Colleges Chancellor’s Office
ENGL-109 The Graphic Novel
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course presents graphic novels and related literature genres by and about characters from various ethnic, cultural, socio-economic, 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 literature 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
Advisory: 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
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course provides students 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, essays of British and American women writers past and present. (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
Advisory: Eligible for 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
Advisory: 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
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course focuses on American literature from 1865 to the present: Transcendentalism, Modernism, and 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 & UC
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: ENGL-101A
Accepted For Credit: CSU & UC
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-125A English Literature: From the Middle Ages to the Restoration/18th Century
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
The course encompasses several revolutions in style and sensibility that have shaped English literature from Beowulf through the Middle Ages, the 16th century, the 17th century, and the Restoration/Early 18th century. (GR)

ENGL-125B English Literature: From Romanticism to Modernism
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course encompasses several revolutions in style and sensibility that have shaped English literature from the Romantic nature poets like Wordsworth, Keats, and Shelley to Modernist writers like James Joyce, Virginia Woolf, and T.S. Eliot. C-ID ENGL 165 (GR)

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: Eligible for 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-131 Hip Hop/Slam Poetry
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU
This is a creative writing course in which students write and perform hip hop and slam poetry that expresses their thoughts about the world. (GC)

ENGL-141 Advanced Novel and Short Story Writing
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
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-141 Fundamentals of Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: Concurrent enrollment in ENGL-162
This course reviews fundamentals of English grammar, punctuation, and acceptable usage as applied to writing clear sentences, paragraphs, and informal essays. Not applicable to associate degree. (GR)

ENGL-151B Fundamentals of Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ENGL-151A 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 associate degree. (GR)

ENGL-156 Introduction to Report and Technical Writing
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B, 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)

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**Did you know??**

The California Community Colleges is the state’s most cost-effective system of education—the revenue needed to support one full-time community college student is slightly more than $5,000 per year.

Source: California Community Colleges Chancellor’s Office

2013-2014 OHLONE COLLEGE CATALOG
ENGL-162 Developmental Reading
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: ESL-184RW or Accuplacer assessment. 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 associate degree. (GR)

ENGL-163 Techniques of College Reading
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ENGL-162 or score between 71.5 and 87.5 on the reading portion of Accuplacer Assessment

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 associate degree. (GR)

ENGL-167 Critical and Analytical Reading
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-163, or eligible for ENGL 101A

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 associate degree. (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 associate degree. (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 associate degree. (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 associate degree. (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 associate degree. (GC)

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. Not applicable to associate degree. Repeatable = 5 times (NG)

ENGLISH AS A SECOND LANGUAGE

Division: Language and Communication

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

Read and discuss news stories and current events. Simplified and standard newspapers will be used. Some writing will be required. Not applicable to associate degree. (GC)

ESL-123 English Verb Tenses
54.00 hrs lecture
Units: 3.00
Prerequisite: ESL-181RW, or placement into a higher level of ESL or English

This course is designed for non-native speakers of English who want a review of the English verb tense system. It emphasizes accurate use of verb tenses in writing, but it will include oral practice as well. Not applicable to associate degree. (GC)

ESL-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 associate degree. (GC)
ESL-150  English Pronunciation I
54.00 hrs lecture
Units: 3.00
Practice in basic pronunciation including the International Phonetic Alphabet (IPA), the recognition and production of the corresponding IPA sounds, stress in words, basic rhythm and intonation patterns, and the development of fluency in basic communicative contexts. Not applicable to associate degree. (GC)

ESL-151  English Pronunciation II
54.00 hrs lecture
Units: 3.00
Prerequisite: ESL-150
Practice in intermediate pronunciation skills including a review of the International Phonetic Alphabet (IPA); the recognition and production of the corresponding IPA sounds; stress in sentences, rhythm, and intonation patterns; and the development of fluency in a greater variety of communicative contexts. Not applicable to associate degree. (GC)

ESL-181LS  Listening and Speaking, Level I
90.00 hrs lecture
Units: 5.00
Prerequisite: Appropriate score on the ESL Placement Test
This course is designed to develop communication skills in American English. It is open to students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency and vocabulary development. Not applicable to associate degree. (GC)

ESL-181RW  Reading and Writing, Level I
90.00 hrs lecture
Units: 5.00
Advisory: Appropriate score on the ESL Placement Test
This course is designed to develop basic reading, writing, and grammar skills in American English. It is part of the first level of the ESL sequence, and it is open to students whose native language is not English. Not applicable to 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 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 reading, writing, and grammar skills in American English. It is part of the second level of the ESL sequence, and it is open to students whose native language is not English. Not applicable to associate degree. (GC)

ESL-183LS  Listening and Speaking, Level III
90.00 hrs lecture
Units: 5.00
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 associate degree. (GC)

ESL-183RW  Reading and Writing, Level III
90.00 hrs lecture
Units: 5.00
Prerequisite: ESL-182RW or placement through ESL Placement Test
This course is designed to develop advanced skills in academic reading and writing, with some attention to grammar and vocabulary. It is the fourth level of the ESL sequence, and it is open to non-native speakers of English. Not applicable to 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 course is designed to develop advanced skills in academic reading and writing, with some attention to grammar and vocabulary. It is the fourth level of the ESL sequence, and it is open to non-native speakers of English. Not applicable to associate degree. (GC)

ESL-191  Grammar and Editing Skills
54.00 hrs lecture
Units: 3.00
Prerequisite: ESL-183RW 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 the course is open to native speakers as well. It is for students who have placed into or have completed any of the following courses: ESL-184RW, ENGL-151A, ENGL-151B, or ENGL-101A. Not applicable to associate degree. (CR)

ESL-365  ESL – Supervised Tutoring
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. Not applicable to associate degree. Repeatable = 5 times (NG)

Did you know?
Ohlone has the third best rate in the state for students who started a basic skills math course and then were successful in transfer level math.
Source: Accountability Reporting for Community Colleges
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. (GR)

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. (GR)

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)

ENVS-105 Energy: Development and Sustainability
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
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-107 Introduction to Sustainable Agriculture
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course examines how changes in the way we eat and farm impact the environment and how traditional and evolving methods of farming can reduce our environmental impact and feed our populations sustainably. (GC)

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-109 Urbanization: Towards Green Communities
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course presents the sociological, economical, and sustainable perspective in the investigation and understanding of urban phenomena. Included are a wide range of topics that tap the spectrum of urban growth and development in both the developed and developing world. (GC)

ENVS-111 Advanced PV Design and Installation
54.00 hrs lecture
Units: 3.00
Prerequisite: ENVS-104
Accepted For Credit: CSU
The field of solar power is ever expanding with new technology, equipment, and installation techniques. This course will further enhance and add to the knowledge gained by students who have taken ENVS-104, Introduction to Solar PV Design and Installation. (GR)

ENVS-122 Environmental GIS
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: GEOG-122
Prerequisite: GEOG-121
Accepted For Credit: CSU
This course will apply skills and techniques that were introduced in Geography 121, Introduction to GIS. 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)
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)

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FRENCH

Division: Language and Communication

Elementary French
FREN-101
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)

Intermediate French
FREN-102
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: FREN-101 or three years of high school French
Accepted For Credit: CSU & UC
This course is a continuation of FREN-101. It covers the fundamentals of French grammar in addition to reading, writing, and speaking the language. (GR)

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GENDER AND WOMEN’S STUDIES

Division: Arts and Social Sciences

Introduction to Gender and Women’s Studies
WS-101
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
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. C-ID SOCI 140 (GC)

Gender Communication
WS-108
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)

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

Women of the Western World
WS-120
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)

Introduction to US Muslim Women and Islam
WS-132
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
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)
GEOGRAPHY

Division: Science, Engineering, and Mathematics

GEOG-101 Physical Geography
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU & UC
This course will focus on the interaction between humans and their physical environment emphasizing the natural features of weather and climate, land forms, soil, vegetation, earthquakes, and volcanism, water quality and environmental management, 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. C-ID GEOG 120 (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. C-ID GEOG 140 (GC)

GEOG-120 Introduction to Global Positioning Systems (GPS)
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Advisory: GEOG-101
This course focuses primarily on the science and application of Global Positioning System (GPS) technology. Students receive hands-on experience with space-based radio navigation systems. The course will examine current and future GPS applications, explore basic navigation, illustrate map coordinate systems, and then integrate this knowledge with the GPS satellite navigation system. (GR)

GEOG-121 Introduction to Geographic Information Systems (GIS)
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: GEOG-101
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. (GR)

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 Geography 121, Introduction to G.I.S. 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. (GR)

GEOG-123 GIS Projects
54.00 hrs lab
Units: 1.00
Prerequisite: GEOG-121
Accepted For Credit: CSU
This course enables students to manage GIS projects using knowledge acquired in GEOG-121 and GEOG-122. (GC)

GEOLOGY

Division: Science, Engineering, and Mathematics

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. C-ID GEOL 101 (GC)

GEOL-102 Introduction to Oceanography
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
The study of the marine realm from the physical, biological, and cultural perspective including the origin of the oceans, plate tectonics, waves, tides, marine life, and human impact on the marine environment. Field trip includes a Bay cruise. (GC)
**GEOL-102L** Oceanography Laboratory  
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  
Accepted For Credit: CSU & UC  
This course is a journey through time that examines the history of life from its beginnings to the end of the last Ice Age, the changing Earth, evolution, mass extinctions, and fossils of dinosaurs and their relatives. Up to two Saturday field trips will be required. (GC)

**GEOL-103L** Earth History and Paleontology Laboratory  
54.00 hrs lab  
Units: 1.00  
Corequisite: GEOL-103 or GEOL-104  
Advisory: Eligible for MATH-151  
Accepted For Credit: CSU & UC  
Hands-on studies of Earth history as revealed by rocks and fossils representing different stages in evolution of the Earth and life through geologic time. Labs include map exercises, relative and numerical age determinations, reconstructions of geological history of North America, and studies of fossil specimens of animals and plants from all over the world. A Saturday field trip may be required. This course is an optional supplement to GEOL-103 or GEOL-104. (GR)

**GEOL-104** The Changing Earth: Historical Geology  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
The study of the origin and evolution of Earth and life through time. Geological history and global change as revealed by plate tectonics, rocks, fossils, and evidence for climatic change, both ancient and recent. The development of continents, especially North America, ocean basins, and mountains. One Saturday field trip required. (GR)

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**GRAPHIC ARTS**

Division: Arts and Social Sciences

**GA-109B** Beginning Graphic Design II  
36.00 hrs lecture, 72.00 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 the pictorial image and written word as basic components in a format for communications. The studio practice develops the student's ability to formulate and communicate a concept into graphic form for both presentation and production. (GC)

**GA-110A** Advanced Graphic Design I  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-110A  
Prerequisite: GA-110B or ART-110B  
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. (GC)

**GA-110B** Advanced Graphic Design II  
36.00 hrs lecture, 72.00 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 course 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. (GC)

**GA-138A** 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. (GC)

**GA-138B** Intermediate Photoshop  
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-138B  
Prerequisite: GA-138A or 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. (GC)
GA-160A  
**Computer Graphics I**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160A, BA-160A, CS-160A  
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. (GC)

GA-160B  
**Computer Graphics II**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160B, BA-160B, CS-160B  
Prerequisite: GA-160A, ART-160A, or CS-160A  
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. The students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. (GC)

GA-161A  
**Digital Graphics I**  
18.00 hrs lecture, 54.00 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. (GC)

GA-161B  
**Digital Graphics II**  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ART-161B, CAOT-161B  
Prerequisite: GA-161A, ART-161A, or CAOT-161A  
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. (GC)

GA-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. (CR)

GA-169A  
**Beginning Digital Photography**  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-139A  
Advisory: ART-138A and ENGL-151A  
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 ART-138A and ART-138B. Students should consider completing ART-138A prior to enrolling in this course, but it is not a requirement. (GC)

GA-169B  
**Intermediate Digital Photography**  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-139B  
Prerequisite: GA-169A or ART-139A  
Accepted For Credit: CSU  
This is an intermediate course on the Macintosh Computer utilizing two software applications, namely Adobe Photoshop and Apple QuickTime VR Authoring Studio. Students will learn to develop QuickTime VR objects, panoramas, and scenes for use with desktop publishing, print publishing, or Web site development. Students will need a camera for capturing images to be used in projects. (GC)

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**HEALTH**

Division: Kinesiology and Athletics

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-140  
**Qigong I**  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Qigong is an ancient Chinese health maintenance healing art and energy cultivating system. This course includes basic physical movements, exercises, breathing techniques, static postures, and introduction to self-massage, visualization, and meditation to enhance the flow of Qi throughout the body. (GC)

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**Did you know?**

Upon transferring to either the CSU or UC, California community college students obtained GPAs equal to, or better than, “native” UC or CSU students and graduated at rates comparable to “native” UC and CSU students.

Source: Community College League of California
### HLTH-141  Qigong II
- **Hours**: 18.00 hrs lecture, 54.00 hrs lab
- **Units**: 2.00
- **Credit**: CSU

This course deepens the study that was introduced in Qigong I and advances the development of the personal Qigong practice techniques through more challenging routines and theoretical applications. This practice transcends the mind-body-spirit concept and facilitates the transformation to a more spiritual practice of Qigong. (GC)

### HLTH-150  Women's Health Issues
- **Hours**: 54.00 hrs lecture
- **Units**: 3.00
- **Cross-referenced Course**: WS-150
- **Advisory**: Eligible for ENGL-101A
- **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 effects on women in American culture. (GC)

### HLTH-160  Human Sexuality
- **Hours**: 54.00 hrs lecture
- **Units**: 3.00
- **Credit**: CSU & UC

This course examines the physiological and psychological aspects of sexual health in our contemporary society. Understanding the interrelationship of attitude and behavior as it relates to sexual integrity. Emphasis will be on knowledge, attitudes and behavior that will contribute to a healthy individual. (GC)

### HIST-104A  Western Civilization with a World Perspective Until 1600
- **Hours**: 54.00 hrs lecture
- **Units**: 3.00
- **Advisory**: Eligible for ENGL-101A
- **Credit**: CSU

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
- **Hours**: 54.00 hrs lecture
- **Units**: 3.00
- **Advisory**: Eligible for ENGL-101A
- **Credit**: CSU

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
- **Hours**: 54.00 hrs lecture
- **Units**: 3.00
- **Advisory**: ENGL-101A
- **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-106A  World History to 1500
- **Hours**: 54.00 hrs lecture
- **Units**: 3.00
- **Advisory**: ENGL-101A
- **Credit**: CSU

History 106A looks at the development of, and interactions between, peoples, states, and civilizations around the world from the end of the ice age (pre-history) to circa 1500 CE (Common Era). The course traces the beginnings of agriculture and rise of cities, the coming of world's major religions and intellectual thought, the rise and fall of empires, routes of trade and migration, and calamities that have parallels with present day, including the impact of human settlement upon the natural world. (GC)

### HIST-106B  World History Since 1500
- **Hours**: 54.00 hrs lecture
- **Units**: 3.00
- **Advisory**: ENGL-101A
- **Credit**: CSU

History 106B analyzes the development of societies and interactions of cultures in Asia, Africa, Europe, and the Americas from 1500 to the present, with an emphasis on their global interactions. The course focuses on trading networks, empires, colonization and decolonization, the rise of modern imperialism, capitalism and its opponents, urbanization and mass communication, technologies for war and peace, and calamities that have parallels with present day, including the impact of human settlement upon the natural world. (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 class examines the impact of film on our lives and history. Students will review films, discuss, and analyze techniques used. (GR)

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-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 America 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. (GC)

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: ENGL-101A  
Accepted For Credit: CSU & UC  
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950’s—Bill Haley, Fats Domino, Elvis Presley, Chuck Berry, and Little Richard—will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student’s appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and the American Culture. The course will chart how rock & roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)

HIST-142  History of Rock and Roll:  
Music and Culture of the 1960’s  
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 integration with general culture and society since 1970 and into the new millennium. It will include identification and analysis of art rock, disco, new wave, reggae, rap, hip-hop, worldbeat, and other musical genres. (GR)
**INTERDISCIPLINARY STUDIES**
Division: Arts and Social Sciences

**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. The course is taught by three instructors, one from each discipline. (GR)

**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: Arts and Social Sciences

**ID-150A**  
**Interior Design Concepts**  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-150A  
Accepted For Credit: CSU  
In this introductory course, students analyze interiors using basic design concepts, principles, and techniques used by professional interior designers, and case studies in problem solving with an emphasis on residential interiors are presented. (GC)

**ID-150B**  
**Interior Design**  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-150B  
Prerequisite: ID-150A or 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. (GC)

**ID-151**  
**Visualization and Presentation**  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-151  
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 projects for a design portfolio. (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 political, religious, and cultural histories which significantly influenced these arts. (GC)

**Did you know?**
13 million students attended community colleges in the U.S. in Fall 2011, representing 45% of all undergraduate students in the U.S.  
Source: American Association of Community Colleges
ID-154 Contemporary Home Design
36.00 hrs lecture
Units: 2.00
Cross-referenced Course: ART-154
Accepted For Credit: CSU
Students 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-163, GA-163, or ID-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 discussed. (GC)

ID-155B CAD for Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-155B
Advisory: ID/ART-155A
Accepted For Credit: CSU
This course focuses on the fundamentals of computer-aided drafting as related to interior design and architectural drawings. Understanding CAD concepts and using commands are emphasized. Drawing skills are learned and developed by applying these concepts to solve practical laboratory problems. (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 interior spaces. A wide range of materials and processes will be explored. (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
This is a comprehensive course in the study of textiles as related to interior design. Fiber and fabric construction and characteristics are examined; textile choices are evaluated and analyzed for safety, functionality, and aesthetics; and the impacts of textiles on interior environments are considered. Students gain an empirical understanding of the nature of textiles though hands-on projects in the laboratory component. (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. (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 explores theoretical and experiential approaches to choosing color schemes for residences. (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. (CR)

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INTERPRETER TRAINING

Division: Deaf Studies

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. (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. (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. (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  
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  
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-191A  ASL Interpreting Workshops  
18.00 hrs lecture  
Units: 1.00  
Prerequisite: Working interpreter experience; four 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. (CR)  

INT-191B  ASL Interpreting Workshops  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: Working interpreter experience; four 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. (CR)  

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  
Prerequisite: Students must be admitted to the Interpreter Preparation Program and have passed with a C or better all first semester courses. Working and Deaf interpreters with consent of instructor or department chair. 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. (GR)  

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
9.00 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, and INT-199A
Corequisite: Students must be registered in all third semester courses: INT-227, INT-245, INT-253 and other INT-199 series courses. Working interpreters and Deaf Interpreters may join with instructor or Division Office 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; BA-121A and BA-121B
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 various 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: First unit course on personal ethics as well as INT-145, INT-147, INT-153, and 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 INT-199 series
Accepted For Credit: CSU
The focus of this course is interpreting from English into ASL. Consecutive and simultaneous interpreting will be studied and practiced. (GR)
### JAPANESE

**Division: Language and Communication**

**JPNS-101A**
**Elementary Japanese**
54.00 hrs lecture, 18.00 hrs lab
Units: 5.00
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**
**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
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: Arts and Social Sciences**

**JOUR-101A**
**Newswriting**
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
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. C-ID JOUR 110 (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-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
Accepted For Credit: CSU
Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the college 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-146 students are expected to produce one photo/graphic per issue. (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
Accepted For Credit: CSU
Staff members initiate, plan and complete photographic or graphic art assignments for publication in the college 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-147 students are expected to produce two photos or graphics per issue. (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR-148</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>3.00</td>
<td>Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the college 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 digital cameras, Macintosh computers, scanners, and Photoshop for completion of assignments. Students are also introduced to legal and ethical responsibilities. JOU-148 students are expected to produce three photos or graphics per issue. This course is usually reserved for managers and editors. (GC)</td>
</tr>
<tr>
<td>JOUR-155</td>
<td>Mass Media and Society</td>
<td>3.00</td>
<td>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. C-ID JOUR 100 (GR)</td>
</tr>
<tr>
<td>JOUR-170</td>
<td>Newspaper Writing and Editing Staff</td>
<td>1.00</td>
<td>Staff members gather information, write, and edit stories for publication in the college newspaper, the Monitor, and on the Monitor's online edition. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOU-170 students are expected to contribute one story per issue. (GR)</td>
</tr>
<tr>
<td>JOUR-171</td>
<td>Newspaper Writing and Editing Staff</td>
<td>2.00</td>
<td>Staff members gather information, write, and edit stories for publication in the college newspaper, the Monitor, and on the Monitor's online edition. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOU-171 students are expected to contribute two stories per issue. (GR)</td>
</tr>
<tr>
<td>JOUR-172</td>
<td>Newspaper Writing and Editing Staff</td>
<td>3.00</td>
<td>Staff members gather information, write, and edit stories for publication in the college newspaper, the Monitor, and on the Monitor's online edition. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOU-172 students are expected to contribute three stories per issue. This course is usually reserved for managers and editors. (GR)</td>
</tr>
<tr>
<td>JOUR-173</td>
<td>Magazine Writing and Editing Staff</td>
<td>1.00</td>
<td>In this class, students write stories, take photos, make illustrations, design pages, and produce the yearly college magazine, Midnight. The class provides practical experience for Communication Arts majors and others considering careers in newspapers, magazines, online publications, or public relations. For all students, it offers insight into how a mass medium operates, its internal conflicts and external effects, as well as an opportunity to learn to write effectively and to work harmoniously with others. JOU-173 students are expected to contribute one story or graphic per issue. (GR)</td>
</tr>
<tr>
<td>JOUR-174</td>
<td>Magazine Writing and Editing Staff</td>
<td>2.00</td>
<td>In this class, students write stories, take photos, make illustrations, design pages, and produce the yearly college magazine, Midnight. The class provides practical experience for Communication Arts majors and others considering careers in newspapers, magazines, online publications, or public relations. For all students, it offers insight into how a mass medium operates, its internal conflicts and external effects, as well as an opportunity to learn to write effectively and to work harmoniously with others. JOU-174 students are expected to contribute two stories or graphics per issue. (GR)</td>
</tr>
<tr>
<td>JOUR-175</td>
<td>Magazine Writing and Editing Staff</td>
<td>3.00</td>
<td>In this class, students write stories, take photos, make illustrations, design pages, and produce the yearly college magazine, Midnight. The class provides practical experience for Communication Arts majors and others considering careers in newspapers, magazines, online publications, or public relations. For all students, it offers insight into how a mass medium operates, its internal conflicts and external effects, as well as an opportunity to learn to write effectively and to work harmoniously with others. JOU-175 students are expected to contribute three stories or graphics per issue. This course is usually reserved for managers and editors. (GR)</td>
</tr>
<tr>
<td>JOUR-176</td>
<td>Advertising Staff</td>
<td>1.00</td>
<td>This course offers practical experience in advertising production related to the student newspaper and magazine. Staff members sell and design ads, maintain regular accounts, and solicit new advertisers. JOU-176 students are expected to make one ad contact per week. (GR)</td>
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<tr>
<td>JOUR-177</td>
<td>Advertising Staff</td>
<td>2.00</td>
<td>This course offers practical experience in advertising production related to the student newspaper and magazine. Staff members sell and design ads, maintain regular accounts, and solicit new advertisers. JOU-177 students are expected to make two ad contacts per week. (GR)</td>
</tr>
</tbody>
</table>
JOUR-178  Advertising Staff
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course offers practical experience in advertising production related to the student newspaper and magazine. Staff members sell and design ads, maintain regular accounts, and solicit new advertisers. JOUR-178 students are expected to make three ad contacts per week. This course is usually reserved for managers and editors. (GR)

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. (GR)

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 understand methods of assessment for cardiovascular fitness, muscular strength and endurance, flexibility, body composition, nutrition, and stress level. These concepts can then be used as a basis for designing and implementing a personal fitness program and increasing awareness regarding enhanced quality of life. (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. (GR)

KIN-257  Prevention and Care of Athletic Injuries
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: ENGL-151B and BIOL-103A
Accepted For Credit: CSU & UC
This is a course 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, determining vital signs, 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 safety issues related to fitness and strength training. This course will also prepare students for the Personal Trainer Examination. (CR)

KIN-381 Clinical Experiences in Athletic Training 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 observe and participate under direct supervision in the treatment, evaluation, and rehabilitation of student athletes injured during practices or competitions. Students will practice the application of athletic training techniques and procedures according to protocols established by the athletic trainer. (CR)

KIN-382 Clinical Experiences in Athletic Training 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 actively participate under direct supervision in the treatment, evaluation, and rehabilitation of student athletes injured during practices or competitions. Students will practice the application of athletic training procedures according to protocols established by the athletic trainer. (CR)

LEARNING SKILLS PROGRAM

Division: Counseling

LSP-101 Learning Skills: Writing Fundamentals  
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 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 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 associate degree. Repeatable = 5 times (GR)

LSP-104 Reading Comprehension  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Prerequisite: 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/retenion skills to the level needed to be successful in college literature and content courses. Not applicable to associate degree. Repeatable = 5 times (GR)

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 associate degree. (CR)

LIBRARY SCIENCE

Division: Business, Technology, and Learning Resources

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: ENGL-151A  
Accepted For Credit: CSU  
This course will focus on finding and evaluating information and learning resources on the Internet for academic research, and also cover the principles of Internet searching, strategies, and citation styles. (CR)
MATH - 101 A   Calculus with Analytic Geometry
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-188  
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. C-ID MATH 210 (GR)

MATH - 101 B   Calculus with Analytic Geometry
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-101A  
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 - 101 C   Calculus with Analytic Geometry
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-101B  
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. C-ID MATH 230 (GR)

MATH - 103   Introduction to Linear Algebra  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-101 B  
Accepted For Credit: CSU & UC  
This course includes an introduction to linear algebra including vector spaces, matrices, determinants, linear transformations, eigenvectors, techniques of solving systems of equations, and applications. C-ID MATH 250 (GR)

MATH - 104   Differential Equations  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-101 B  
Advisory: MATH-101C and MATH-103  
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. C-ID MATH 240 (GR)

MATH - 111   Introduction to Matlab  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-101 A  
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 - 151   Algebra I  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-191 or placement evaluation  
This course includes the study of operations on algebraic expressions, linear equations and inequalities, graphs of linear equations, systems of equations, exponents, polynomials, factoring, and rational expressions. Not applicable to associate degree. (GR)

MATH - 151 A   Algebra I (Part 1)  
54.00 hrs lecture  
Units: 2.50  
Prerequisite: MATH-191 or placement evaluation  
This course includes the study of operations using signed numbers, equations (two variables) and inequalities, graphs, and an introduction to systems of equations. The course emphasizes problem-solving skills. Not applicable to associate degree. (GR)

MATH - 151 B   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 associate degree. (GR)

MATH - 152   Algebra II  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-151; MATH-151A and MATH-151B; or placement evaluation  
This course includes the study of systems of equations, relations, functions and their graphs, conic sections, exponential and logarithmic functions, arithmetic and geometric sequences and series, and the binomial theorem. (GR)

MATH - 152 A   Algebra II (Part 1)  
54.00 hrs lecture  
Units: 2.50  
Prerequisite: MATH-151; MATH-151A and MATH-151B; or placement evaluation  
This course includes the study of functions, systems of linear equations, inequalities, radical expressions and equations, problem solving, and complex numbers. (GR)

MATH - 152 B   Algebra II (Part 2)  
54.00 hrs lecture  
Units: 2.50  
Prerequisite: MATH-152A or placement evaluation  
This course includes the study of 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; MATH-151A and MATH-151B; or placement evaluation  
This course includes the study of relations and functions and their graphs, quadratic equations, parabolas, exponential and logarithmic functions, and sigma notation. (GR)
MATH-155  **Math for the Associate Degree**
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-151 or placement evaluation
This course meets the minimum general education mathematics requirement. The course 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, MATH-153, 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, MATH-153, or placement evaluation
Advisory: ENGL-163
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
Advisory: MATH-101A and MATH-101B
Accepted For Credit: CSU & UC
This course is an introduction to discrete mathematics and its applications. Topics to be covered include logic, sets, relations, functions, combinatorics, graph and tree theory, Boolean algebra, Proofs, and algorithms. Applications to computer studies and other related areas will be presented. (GC)

MATH-166  **Finite Mathematics**
72.00 hrs lecture
Units: 4.00
Prerequisite: MATH-152
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
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-181  **Trigonometry**
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-152 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
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 ratios, percents, word problems, and U.S. and metric systems of measurement; statistical graphs, measurement of central tendency and word problems employing those concepts. Not applicable to associate degree. (GR)

MATH-190A  **Basic Mathematics (Self-Paced)**
27.00 hrs lecture
Units: 1.50
This self-paced course covers the arithmetic of whole numbers, integers, fractions, and decimals. Completion of MATH-190A and MATH-190B is equivalent to MATH-190. Not applicable to associate degree. (GR)
MATH-190B  Basic Mathematics (Self-Paced)
27.00 hrs lecture
Units: 1.50
Prerequisite: MATH-190A
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 and MATH-190B is equivalent to MATH-190. Not applicable to associate degree. (GR)

MATH-191  Pre-Algebra
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-190, MATH-190B, or placement evaluation
This course includes a study of signed integers, fractions, and decimals; variables and problem-solving; and applications in geometry. Also, this course covers study skills. Not applicable to associate degree. (GR)

MATH-199  Success in Math
18.00 hrs lecture, 18.00 hrs lab
Units: 1.00
Corequisite: Concurrent enrollment in another Math class
This course is designed to assist students in learning mathematics through the development of successful study skills and exam taking methods. Students will also be provided with skills necessary to overcome any math anxieties they may have. This course addresses learning styles, reading math textbooks, completing homework assignments, and taking notes. Not applicable to associate degree. (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 coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 5 times (NG)

MULTIMEDIA
Division: Arts and Social Sciences

MM-102A  Introduction to Multimedia
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
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-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. (GC)

MM-103B  Intermediate Flash: Interactivity
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Prerequisite: MM-103A
Create interactive projects for the Web. Learn basic ActionScript to control the timeline, properties of symbols, and user input. Other topics include optimizing Flash movies for the Web and creating preloads. (GC)

MM-104  Advanced Interactivity in Flash
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: MM-102A
Accepted For Credit: CSU
Learn design principles and ActionScript, the powerful programming language in Flash, to add complex interaction to your projects. No prior programming experience is required; however, familiarity with Flash is essential. (GR)

MM-105  Web Site Design
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
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. (GC)

MM-106  Advanced Web Site Design
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-105
Accepted For Credit: CSU
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
Units: 0.50
This is an introductory course in creating Web pages using Dreamweaver software. Students will create Web sites that include graphics, tables, and basic CSS. (GC)

MM-108  Visual Communication
54.00 hrs lecture, 36.00 hrs lab
Units: 3.00
Cross-referenced Course: COMM-108
Accepted For Credit: CSU & UC
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. (GC)
MM-110  Digital Video for Web and DVD
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: BRDC-110
Advisory: MM-102A
Accepted For Credit: CSU
Students learn techniques to shoot, edit, and set the correct parameters to upload short videos to the Internet or create a DVD. Training in the use of digital cameras, microphones, lights, and video editing software. Topics include camera shots, transitions, composition, video file formats, compression, special effects, and producing video for YouTube, Web sites, and DVD. (GR)

MM-114  Textures for 3D
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: MM-116 or MM-102A
Students will learn different techniques to enhance 3D objects and environments using 3D modeling and 2D paint software. The topics covered are painting textures, manipulating digital images, texture mapping, lighting techniques, camera shots, applying principles of art and design to 3D imagery, and rendering images for multimedia and print. (GC)

MM-118  Introduction to Video Game Design
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: ENGL-101A
Accepted For Credit: CSU
This class focuses on the process of planning, developing, and creating content for video games. Students will gain an understanding of the video game industry, and they will learn how to design characters, levels, and design documents. (GC)

MM-119  Video Game Development
36.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: MM-116 and MM-118
Advisory: MM-114 and MM-115
Accepted For Credit: CSU
This class focuses on producing video games using 3D software and game engines. Students work in a team environment and follow production practices employed in the video game industry. (GC)

MM-121A  3D Modeling
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: CS-101
Accepted For Credit: CSU
Students will learn different techniques to model virtual objects and environments using 3D modeling software. The topics covered are designing characters, modeling, texture mapping, lighting techniques, camera shots, 3D scene layout, and rendering images for different multimedia applications. Introduction to basic 3D animation techniques may be covered. Simple animations may be created. (GC)

MM-121B  3D Animation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-121A
Advisory: MM-102A
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. The topics covered include storyboards, principles of animation, function curves, bones, introduction to inverse kinematics, camera motion, scene direction, and exporting animations in different file formats. (GC)

MM-121C  Advanced 3D Modeling and Animation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-121B
Advisory: MM-102A
Accepted For Credit: CSU
Students will learn advanced techniques in modeling and animation using 3D animation software. The topics include advanced modeling tools, texture mapping, lighting and reflection effects, function curves, particle systems, camera effects, scene direction, adding sound, basic video editing, and advanced animation using inverse kinematics. (GC)

MM-160  Multimedia Portfolio Development
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-105
Advisory: MM-102B
Accepted For Credit: CSU
This course will focus on the development of student portfolios of their work for presentation on CD-ROM and the World Wide Web. Students will review the “cultures” of the multimedia industry, review job roles and responsibilities, go on field trips, and critique student work. (GC)

MM-162  XHTML
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-162
Advisory: CS-101, CNET 101, or CS-101A
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 Dynamic Hypertext Markup Language (DHTML) techniques, and working with eXtensible Markup Language (XML) and eXtensible Stylesheet Language (XSL). (GC)

MUSIC
Division: Arts and Social Sciences

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. The course is taught by three instructors, one from each discipline. (GR)

MUS-101  Music Appreciation: Western Classical Music
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course concentrates on the development of an attentive style of listening, the introduction and systematic study of the building blocks of music, and enhancing awareness of the main musical styles of selected western cultures. (GR)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Corequisites/Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-102</td>
<td>Music Appreciation</td>
<td>3.00</td>
<td></td>
<td>This course is an introductory course in music for students without previous formal training in music, listening, or performance. The course is designed to provide understanding and enjoyment through informed listening, analysis, and discernment of musical elements, forms, and repertoire. The material selected is from all styles, periods, and cultures. (GR)</td>
</tr>
<tr>
<td>MUS-103</td>
<td>Fundamentals of Music</td>
<td>3.00</td>
<td></td>
<td>A survey of traditional and contemporary music from around the world including, but not limited to: Africa, India, Indonesia, South/Central America, Caribbean, Europe, China, Japan, and the United States. This course will deal with the traditional instruments and ensembles, as well as vocal techniques and performance practices particular to each region. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)</td>
</tr>
<tr>
<td>MUS-104</td>
<td>Music of World Cultures</td>
<td>3.00</td>
<td></td>
<td>This course is an introductory course for students investigating the study of musical notation, keys, scales, chords, and ear training. (GC)</td>
</tr>
<tr>
<td>MUS-108</td>
<td>Songwriting</td>
<td>2.00</td>
<td></td>
<td>This course will expose students to the analytical processes, compositional techniques, and marketing fundamentals involved in the business of commercial songwriting. Song demos will be created in the computer program GarageBand. Final projects will be played and recorded by live musicians in the Ohlone recording studio. Ability to play guitar or piano will be extremely helpful. (GR)</td>
</tr>
<tr>
<td>MUS-110A</td>
<td>Music Theory and Harmony</td>
<td>3.00</td>
<td>MUS-111A</td>
<td>This course includes the study of major and minor scales, modal tonality, chord construction, rhythm meters, and the introductory analysis of diatonic harmony and non-harmonic tones. This course is the first in the four semester theory sequence. (GR)</td>
</tr>
<tr>
<td>MUS-110B</td>
<td>Harmony</td>
<td>3.00</td>
<td>MUS-111B</td>
<td>This course includes the study of diatonic harmony in major keys, major and minor triads and inversions, modulation, non-harmonic tones, and secondary dominants. The course includes writing for the piano using the phrase, period, and two- and three-part song form. This course is the second in the four semester theory sequence. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)</td>
</tr>
<tr>
<td>MUS-110C</td>
<td>Advanced Harmony</td>
<td>3.00</td>
<td>MUS-110A and MUS-110B</td>
<td>This course is a study of chromatic harmony with particular emphasis on the chronological development of harmonic and contrapuntal techniques from the 16th through the 19th centuries. This course is the third in the four semester theory sequence. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)</td>
</tr>
<tr>
<td>MUS-110D</td>
<td>Advanced Harmony</td>
<td>3.00</td>
<td>MUS-110C</td>
<td>This course is a study of compositional materials and techniques from the 19th century to the present. This course is the fourth of a four semester theory sequence. (GR)</td>
</tr>
<tr>
<td>MUS-111A</td>
<td>Musicianship I</td>
<td>1.00</td>
<td>MUS-110A</td>
<td>This course continues the development and application of skills in sight singing, ear training, and the ability to take musical dictation. This curriculum parallels the analytical concepts presented in MUS-110B, Harmony. (GR)</td>
</tr>
<tr>
<td>MUS-111B</td>
<td>Musicianship II</td>
<td>1.00</td>
<td>MUS-111A</td>
<td>This course continues the development and application of skills in sight singing, ear training, and the ability to take musical dictation. This curriculum parallels the analytical concepts presented in MUS-110B, Harmony. (GR)</td>
</tr>
<tr>
<td>MUS-111C</td>
<td>Musicianship III</td>
<td>1.00</td>
<td>MUS-111B</td>
<td>This course continues the development and application of skills in sight singing, ear training, and the ability to take musical dictation. This curriculum parallels the analytical concepts presented in MUS-110C, Advanced Harmony. (GR)</td>
</tr>
<tr>
<td>MUS-111D</td>
<td>Musicianship IV</td>
<td>1.00</td>
<td>MUS-111C</td>
<td>This course continues the development and application of skills in sight singing, ear training, and the ability to take musical dictation. This curriculum parallels the analytical concepts presented in MUS-110D, Advanced Harmony. (GR)</td>
</tr>
<tr>
<td>MUS-112A</td>
<td>Pro Tools 101</td>
<td>3.00</td>
<td></td>
<td>Introduction to Pro Tools covers basic Pro Tools principles necessary to complete a Pro Tools project. Students are eligible to take AVID (Pro Tools 101) certification upon completion of this course. (GR)</td>
</tr>
</tbody>
</table>
MUS-112B Pro Tools 110
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Prerequisite: MUS-112A
Accepted For Credit: CSU
This course provides a more detailed look at the ProTools system. This course covers all the key concepts and skills needed to operate a Pro Tools system. (GR)

MUS-112C Pro Tools 201
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: MUS-112A, MUS-112B
Accepted For Credit: CSU
This course 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; in-depth plug-in usage, and more. (GR)

MUS-113 Studio Recording
54.00 hrs lecture, 18.00 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, digital audio workstation (DAW), and monitoring stations. The course explores various types of microphones, the functions of virtual mixing boards, the characteristics of plug-in signal processors, and recording techniques. (GR)

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. (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. (GR)

MUS-121 The 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. (GR)

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, 15-142
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, 15-143
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-145
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course examines the development of popular music and its integration with general culture and society since 1970 and into the new millennium. It will include identification and analysis of art rock, disco, new wave, reggae, rap, hip-hop, worldbeat, and other musical genres. (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
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-160C  Class Piano  
18.00 hrs lecture, 36.00 hrs lab  
Units: 1.00  
Advisory: MUS-160B  
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-160D  Class Piano  
18.00 hrs lecture, 36.00 hrs lab  
Units: 1.00  
Advisory: MUS-160D  
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-160E  
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-160F  
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-161A  Class Guitar  
18.00 hrs lecture, 36.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course is group instruction giving students the opportunity to experience playing the guitar in solo, accompaniment, and ensemble settings. The repertoire represents all stylistic periods. Students must provide their own guitar. (GR)

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-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)
**MUS-162C**  
**Class Voice — Intermediate**  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Prerequisite: MUS-162B  
Accepted For Credit: CSU & UC  

In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students will practice correct tone production, diction, stage presence, and style interpretation. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. 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  
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  
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-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  
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  
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  
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  
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  
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  
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-165A 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
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-165C  Percussion Instruments
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-165B
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-165D  Percussion Instruments
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-165C
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-166A  Applied Music
18.00 hrs lecture, 18.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course involves individual instruction in voice, piano, guitar, or other traditional orchestral instruments. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatability = 3 times (GC)

MUS-169A  Jazz Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Some playing ability required
Accepted For Credit: CSU & UC
Various aspects of jazz guitar with special emphasis on improvisation and harmony are presented in group instruction. (GR)

MUS-169B  Blues/Rock Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Previous playing experience
Accepted For Credit: CSU & UC
Blues/Rock improvisation and accompaniment. Group instruction includes lecture, demonstration, and in-class playing. (GR)

MUS-192  Music for Minors: Music Docent Training
45.00 hrs lecture, 27.00 hrs lab
Units: 3.00
Advisory: Ability to keep beat and sing on pitch
This course provides training to teach the elements of music through active participation in a comprehensive music program for elementary school classrooms. It is required as the basic training for Music for Minors which provides a minimum of 1/2 hour weekly instruction in elementary classrooms for at least one school year. (GR)

MUS-351  Performance Ensembles
54.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music. Accepted For Credit: CSU & UC
This course is the study and performance of vocal and/or instrumental ensemble literature, both jazz and classical. Performers participate in small ensembles of varied instrumentation throughout each semester. Attendance at scheduled public performances is required. This course is required of all instrumental music majors each semester of attendance. (GC)

MUS-352  Jazz/Rock Combos
54.00 hrs lab
Units: 1.00
Advisory: Ability to read music
Accepted For Credit: CSU & UC
This course includes sight-reading, preparation, performance, and recording of various styles of music composed and arranged for standard Jazz, Rock, Jump, Blues, and Latin ensembles. Emphasis is on groove playing and feel. Additional emphasis on improvising within the ensemble structure is a goal for each student. Student composition and arranging is encouraged. Repeatability = 3 times (GR)

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. Repeatability = 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. Repeatability = 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 Choral and Symphonic Choir as well as its own performance opportunities. Repeatability = 3 times (GC)

MUS-356  Chamber Singers
54.00 hrs lab
Units: 1.00
Prerequisite: Audition
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. Repeatability = 3 times (GC)

Did you know???
During 2012-2013 five Ohlone athletic teams made an appearance in the post-season (Men’s Basketball, Women’s Basketball, Women’s Soccer, Men’s Swimming, and Women’s Volleyball). Additionally, seven members of the Men’s Swim Team qualified for the State Championships, which equals the 19th consecutive year of Ohlone Swimming being represented at the State Championship Meet!
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credit Acceptance</th>
<th>Prerequisites/Advisory</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-358</td>
<td>Community Chorale</td>
<td>1.00</td>
<td>CSU</td>
<td>Accepted For Credit: CSU</td>
</tr>
<tr>
<td></td>
<td>This course is a large, “oratorio” style choir designed for the campus/community singer. The course is non-audition choir for those interested in singing with a large ensemble. (GC)</td>
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<tr>
<td>MUS-369</td>
<td>Jazz, Rock, Pop, Blues Piano</td>
<td>1.00</td>
<td>CSU &amp; UC</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>This course is a basic techniques and forms study of the applied and improvisation techniques of Jazz, Rock, Pop, Fusion, and Blues piano. Some prior piano study and reading ability are advised, but beginners are welcome. Repeatable = 3 times (GR)</td>
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</tr>
<tr>
<td>MUS-370</td>
<td>Symphonic Band</td>
<td>0.50</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>MUS-371</td>
<td>Mixed Wind Ensemble</td>
<td>0.50</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>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)</td>
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</tr>
<tr>
<td>MUS-374</td>
<td>Community Orchestra</td>
<td>0.50</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>This course features the study and performance of both chamber and full symphonic orchestra repertoire. The literature represents all stylistic periods. (GC)</td>
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</tr>
<tr>
<td>MUS-380</td>
<td>Musical Theatre Workshop I (Principals)</td>
<td>1.00</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>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)</td>
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</tr>
<tr>
<td>MUS-381</td>
<td>Musical Theatre Workshop II (Chorus)</td>
<td>1.00</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
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</tr>
<tr>
<td>MUS-382</td>
<td>Musical Theatre Workshop III (Instrumental)</td>
<td>0.50</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance from the perspective of the “pit musician.” Repeatable = 3 times (GC)</td>
<td></td>
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</tr>
<tr>
<td>MUS-394</td>
<td>Madrigals</td>
<td>1.00</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>This course is an audition-only choir ensemble of trained community/campus singers who specialize in choral music from the “show choir/vocal jazz choir” repertoire. Repeatable = 3 times (GC)</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**NURSING**

Division: Health Sciences and Environmental Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credit Acceptance</th>
<th>Prerequisites/Advisory</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR-117</td>
<td>Critical Thinking Development-Intensive</td>
<td>0.50</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>This course is designed for students concurrently enrolled in the Registered Nursing program. 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. Not applicable to associate degree. (GC)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>NUR-118</td>
<td>Strategies for Success</td>
<td>2.00</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>This course introduces basic study skills necessary for student success in the Nursing and Allied Health programs. Understanding test-taking format and practice tests with NCLEX type questions will be offered to improve student test-taking success. Not applicable to associate degree. (GC)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>NUR-119</td>
<td>Strategies for the RN Student</td>
<td>0.50</td>
<td>CSU</td>
<td>Accepted For Credit: CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>This 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. (GC)</td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Lecture Hours</td>
<td>Lab Hours</td>
<td>Units</td>
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<tr>
<td>------------</td>
<td>-------------------------------------------------</td>
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</tr>
<tr>
<td>NUR-301</td>
<td>Foundations of Nursing</td>
<td>54.00</td>
<td>135.00</td>
<td>5.50</td>
</tr>
<tr>
<td>NUR-302</td>
<td>Nursing Care of the Medical-Surgical Patient I</td>
<td>54.00</td>
<td>135.00</td>
<td>5.50</td>
</tr>
<tr>
<td>NUR-303</td>
<td>Nursing Care of Women and Children</td>
<td>72.00</td>
<td>216.00</td>
<td>8.00</td>
</tr>
<tr>
<td>NUR-304</td>
<td>Nursing Care of the Medical-Surgical Patient II</td>
<td>45.00</td>
<td>135.00</td>
<td>5.00</td>
</tr>
</tbody>
</table>

NUR-301: Foundations of Nursing

54.00 hrs lecture, 135.00 hrs lab
Units: 5.50
Prerequisite: Admission to the Registered Nursing program
Accepted For Credit: CSU

Nursing 301 is the first course in the nursing sequence. Students are introduced to the theory and practice of nursing based on the adaptation model. The 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 in 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 cultural variances in time, perception and personal space. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of fundamental nursing skills in a multimedia setting and utilization of both high and 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: Admission to the Registered Nursing program
Accepted For Credit: CSU

Nursing 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. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills is in a multimedia setting and utilization of high and low fidelity mannequins 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-301
Accepted For Credit: CSU

Nursing 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 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 postpartum 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 practices that have an impact on the hospitalized child and his family; cultural responses to child abuse and the child with congenital anomalies; and multicultural education of families. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills in a multimedia setting with the use of intermediate and high-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: Admission to the Registered Nursing program; NUR-303
Accepted For Credit: CSU

Nursing 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. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills is in a multimedia setting and utilization of high and low fidelity mannequins 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-303
Accepted For Credit: CSU
Nursing 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 adult and geriatric patients with alterations in the cardiovascular, respiratory, endoprotective, elimination, and neuro/sensation modes. Critical thinking will be promoted by assisting the students to interrelate pathophysiology, nursing assessments, implications of diagnostic tests, pharmacology and medical treatments. Students will utilize the nursing process to develop a plan of care that respects the individual’s cultural beliefs and promotes adaptive responses in adult and geriatric patients experiencing complex physiological and psychological alterations of the cardiovascular, respiratory, renal, endoprotective, and neurological modes. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of related skills in a multimedia setting and utilization of high fidelity mannequins is included. Application of both theory and skills occurs in the acute care hospitals. (GR)

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
Accepted For Credit: CSU
Nursing 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, critical thinking, spiritual health and cultural diversity through the use of actual clinical situations and/or simulations or role-playing. The clinical setting provides a variety of interactional 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. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills in a multimedia setting is included. Clinical application of both theory and skills occurs in the hospital and community settings. (GR)

NUR-307 Nursing Leadership and Preceptorship
18.00 hrs lecture, 216.00 hrs lab
Units: 5.00
Prerequisite: NUR-305
Accepted For Credit: CSU
Nursing 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 for 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. Detailed objectives are written for each class and correlate with required preparation. 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. Not applicable to associate degree. (CR)

NUR-316 Maternal-Newborn and Women’s Health Review
18.00 hrs lecture
Units: 1.00
Advisory: Student must be either current RN or enrolled in NUR-307
Nursing 316 is a 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. 1 CEU is available for RNs. Not applicable to associate degree. (CR)

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)

Did you know???
Ohlone’s Respiratory Therapist program was recognized by the Commission on Accreditation for Respiratory Care (CoARC) for receiving the Distinguished RRT Credentialing Success Award! The CoARC considers the RRT credential a measure of a program’s success in inspiring its graduates to achieve their highest educational and professional aspirations.
**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. (CR)

**PD-102 College Orientation for International Students**
- 9.00 hrs lecture
- Units: 0.50
- Accepted For Credit: CSU
- This course is designed for new international students as an orientation to Ohlone College. This course covers specific topics designed to help international students transition to college and life in the U.S. Students will be familiar with the U.S., education system, college resources, and immigration regulations for F-1 Visa holding students. The theme and content of each class varies and is determined by the counseling faculty. (GC)

**PD-103 Transfer Success**
- 54.00 hrs lecture
- Units: 3.00
- Advisory: ENGL-151B and ENGL-163
- Accepted For Credit: CSU & UC
- This course is designed for first-year students interested in transferring to a college or university, understanding the complex process and achieving student success. Students will learn about self-assessment; goal setting and motivation; critical thinking; degree options; university systems and requirements; transfer programs; education planning; the application process; planning financially; time management, as well as how to ensure a smooth transition. (GC)

**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, critical and creative thinking. The course focus is on the following topics: self evaluation and assessment; goal setting; decision making; educational planning; time and financial management techniques; instructor-student relationships; effective communication; cultural diversity; health maintenance; stress management; campus resources; learning styles and strategies including lecture note-taking, test taking, memory, and concentration. This course cannot be taken in conjunction with PD-111 or PD-113. (GC)

**PD-106 Strategies for Success in Math**
- 18.00 hrs lecture, 18.00 hrs lab
- Units: 1.00
- Corequisite: MATH-151A
- 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 this course is designed to assist students in Math. Not applicable to associate degree. (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. (GC)

**PD-113 Strategies for Succeeding in College**
- 36.00 hrs lecture
- Units: 2.00
- Accepted For Credit: CSU & UC
- This course helps students 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 and critical and creative thinking. The theme and content of each class varies and is determined by the Counseling faculty. This course cannot be taken in conjunction with PD-105 or PD-111. (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. (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
- 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. (CR)

**PD-150 Career Planning**
- 36.00 hrs lecture
- Units: 2.00
- Advisory: Eligible for ENGL-151B and ENGL-163
- Accepted For Credit: CSU
- This course will allow students to evaluate personal interests, skills, values, work styles, and experience and to relate them to the world of work. Students will also learn decision making, educational and career planning, locating career resources, job search strategies, and labor market awareness. The theme and content of each class varies and is determined by the Counseling faculty. (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD-170</td>
<td>Welcome Day: The Freshman Connection</td>
<td>9.00</td>
<td>0.50</td>
<td>Various workshops will be taught by counselors, faculty, and administrators to help students make the transition to college. They will learn how to be successful in college, what college services are available to them, and where things are located on campus. The course includes a guaranteed follow-up counseling appointment. (CR)</td>
</tr>
<tr>
<td>PD-180</td>
<td>Peer Mentoring</td>
<td>36.00</td>
<td>2.00</td>
<td>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)</td>
</tr>
<tr>
<td>PD-240</td>
<td>College Success for Pre-Health Science Majors</td>
<td>36.00</td>
<td>2.00</td>
<td>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)</td>
</tr>
<tr>
<td>PD-241</td>
<td>College Success for Athletes</td>
<td>36.00</td>
<td>2.00</td>
<td>This course is designed for new student-athletes to assist with the adjustment to college level academics and athletics. The focus is on application of learning strategies, academic planning, time management, transfer and eligibility guidelines, life skills and study skills. Additionally, this course will promote realistic expectations of college while understanding what is necessary to succeed as an intercollegiate athlete. (GC)</td>
</tr>
</tbody>
</table>

### PHILOSOPHY

#### DIVISION: ARTS AND SOCIAL SCIENCES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL-100</td>
<td>Introduction to Philosophy</td>
<td>3.00</td>
<td>3.00</td>
<td>An introduction to philosophy, examining various philosophers, and enduring questions such as “What is Reality?” “Who am I?” and “What can I know?” (GC)</td>
</tr>
<tr>
<td>PHIL-101</td>
<td>Ancient Philosophy</td>
<td>3.00</td>
<td>3.00</td>
<td>This course is an introduction to the development of Western philosophy through a study of its beginnings in ancient Greece. Thinkers considered include the Presocratics, Socrates, Plato, Aristotle, and post-Socratics such as the Stoics and Epicureans. C-ID PHIL 130 (GC)</td>
</tr>
<tr>
<td>PHIL-102</td>
<td>Modern Philosophy</td>
<td>3.00</td>
<td>3.00</td>
<td>This course is an introduction to the history of modern philosophy. Thinkers studied include Descartes, Hobbes, Locke, Berkeley, Hume, Kant, and contemporary philosophers. (GC)</td>
</tr>
<tr>
<td>PHIL-104</td>
<td>Logic</td>
<td>3.00</td>
<td>3.00</td>
<td>This is an introductory course in formal deductive reasoning. Emphasis will be on modern symbolic logic. Topics discussed include truth-functional connectors, truth tables, natural deduction, and proof. C-ID PHIL 110 (GC)</td>
</tr>
<tr>
<td>PHIL-106</td>
<td>Ethics</td>
<td>3.00</td>
<td>3.00</td>
<td>This course examines the major ethical systems and contemporary moral issues. Ethical theories include Kantianism, Utilitarianism, Virtue Theory, and Ethics and Care. Moral issues will include euthanasia, abortion, the death penalty, animal rights, and obligations to charity. C-ID PHIL 120 (GC)</td>
</tr>
<tr>
<td>PHIL-107</td>
<td>Practical Reasoning</td>
<td>3.00</td>
<td>3.00</td>
<td>This is a practical examination of reasoning and argumentation illustrated by topics drawn from everyday life. Topics examined include the structure and form of arguments, informal fallacies, and ways in which cultural, social, and psychological factors support or detract from the reasoning process. (GC)</td>
</tr>
<tr>
<td>PHIL-109A</td>
<td>Understanding the Old Testament</td>
<td>3.00</td>
<td>3.00</td>
<td>This course is a general introduction to the Hebrew Scriptures. Emphasis will be upon the history, literature, and religion of ancient Israel, using the findings of modern Biblical scholarship. (GC)</td>
</tr>
<tr>
<td>PHIL-109B</td>
<td>Understanding the New Testament</td>
<td>3.00</td>
<td>3.00</td>
<td>This course is a general introduction to the New Testament. Emphasis will be upon the use of modern scholarship to investigate the historical, literary, and religious background of the New Testament. (GC)</td>
</tr>
<tr>
<td>PHIL-110</td>
<td>Introduction to Asian Religions</td>
<td>3.00</td>
<td>3.00</td>
<td>This course is a secular survey of the religious and philosophical thought of the great Eastern religious traditions: Hinduism, Buddhism, Confucianism, and Taoism. Cultural backgrounds and historical development will be emphasized. (GC)</td>
</tr>
</tbody>
</table>
PHIL-112  Introduction to Western Religions  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a secular comparative survey of major religious traditions of the Western World: Judaism, Christianity, Islam, etc. Cultural backgrounds and historical development will be emphasized. (GC)

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. This is a non-secular course. (GC)

PHIL-116  Bioethics  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines issues concerning biotechnology, medicine, and the ethical questions that are raised by the technology. Concepts studied include human and animal research, genetically modified organisms, genetic engineering, eugenics, stem cell research, and artificial biology. Ethical theory will also be examined as a groundwork for discussion of the issues covered. (GC)

PHIL-118  Latin American Philosophy  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course will survey post-colonial thought in Latin America, including how European ideas have influenced Latin American philosophy, concepts of race, identity, community ethics; and the impact of Latin American philosophy on contemporary society. (GC)

PHIL-112  Introduction to Western Religions  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a secular comparative survey of major religious traditions of the Western World: Judaism, Christianity, Islam, etc. Cultural backgrounds and historical development will be emphasized. (GC)

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. This is a non-secular course. (GC)

PHIL-116  Bioethics  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines issues concerning biotechnology, medicine, and the ethical questions that are raised by the technology. Concepts studied include human and animal research, genetically modified organisms, genetic engineering, eugenics, stem cell research, and artificial biology. Ethical theory will also be examined as a groundwork for discussion of the issues covered. (GC)

PHIL-118  Latin American Philosophy  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course will survey post-colonial thought in Latin America, including how European ideas have influenced Latin American philosophy, concepts of race, identity, community ethics; and the impact of Latin American philosophy on contemporary society. (GC)

PHYSICAL EDUCATION  
Division: Kinesiology and Athletics  

PE-250  Fitness Camp  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: Medical check within the last year recommended  
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. (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  
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-301B2  Intermediate Volleyball  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-301A2 or PE-301A3  
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 or PE-301B3  
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-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-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)
**PE-307C2  Advanced Baseball**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; previous high school or college experience  
Accepted For Credit: CSU & UC  
This course is designed to improve skills and understanding of baseball fundamentals enabling the student to complete at the college level. Strategy and technique will be taught in non-competitive and competitive situations. Situational hitting and defense practice in game settings will also be stressed. (GC)

**PE-315A2  Beginning Bowling**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course provides the student an understanding of the fundamentals of beginning bowling. (GC)

**PE-315B2  Intermediate Bowling**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-315A2  
Accepted For Credit: CSU & UC  
This course is designed for students who wish to learn advanced bowling techniques. (GC)

**PE-320A2  Basic Golf Skills**  
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 fundamentals of the game of golf including grip, stance, swing, rules, etiquette, and knowledge of equipment. (GC)

**PE-320A3  Basic Golf Skills**  
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 fundamentals of the game of golf including grip, stance, swing, rules, etiquette, and knowledge of equipment. (GC)

**PE-321  Small Group Golf Instruction**  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU & UC  
This course covers the fundamentals of golf technique including proper use of equipment, grip, stance, and swing. The course is broken into smaller groups for more effective learning and coaching. (GC)

**PE-322A2  Golf: Chipping, Pitching, and Putting**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-320A2 or PE-320A3  
Accepted For Credit: CSU & UC  
This is an advanced golf class designed specifically to introduce the student to the skills required in the performance of chipping, pitching, and putting in order to lower their golf score. (GC)

**PE-322A3  Golf: Chipping, Pitching, and Putting**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-320A2 or PE-320A3  
Accepted For Credit: CSU & UC  
This is an advanced golf class designed specifically to introduce the student to the skills required in the performance of chipping, pitching, and putting in order to lower their golf score. (GC)

**PE-323  Golf One on One**  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Advisory: Some existing golf experience  
Accepted For Credit: CSU & UC  
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. (GC)

**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 & 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 and tournament golf. The student will also play various golf formats and establish a golf handicap. (CR)
**PE-336A3**  
**Express Cardio**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU  
This course 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. (GC)

**PE-341A2**  
**Strength Training**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU  
This course is designed to assist the student in developing a strength and fitness program through the practical application of sound weight training techniques. (GC)

**PE-341B2**  
**Intermediate Strength Training**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU  
This course is designed to assist the student with advanced strength training concepts and techniques for personal physical development and weight room independence. This course expands students' knowledge of progressive resistance (weight) training, with increased focus on free weights, thus increasing the variety and methods of training techniques. (GC)

**PE-342A2**  
**Circuit Training**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU  
This activity course is designed to increase flexibility, strength, and cardiovascular endurance 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  
This activity course is designed to increase flexibility, strength, and cardiovascular endurance 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  
This course provides students with an opportunity to create and practice an individualized fitness and wellness program through the use of cardiovascular equipment, circuit training, resistance machines, and free weights. (GC)

**PE-343A3**  
**Strength and Cardio Training**  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course provides students with an opportunity to create and practice an individualized fitness and wellness program through the use of cardiovascular equipment, circuit training, resistance machines, and free weights. (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 provides students with a structured total body workout designed to improve fitness and health through the use of cardiovascular equipment, circuit training, resistance machines, and free weights. (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 provides students with a structured total body workout designed to improve fitness and health through the use of cardiovascular equipment, circuit training, resistance machines, and free weights. (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, gluteal, and thigh muscle groups. (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, gluteal, and thigh muscle groups. (GC)

**PE-350A2**  
**Learning to Swim**  
36.00 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-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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lab Hours</th>
<th>Units</th>
<th>Advisory Notes</th>
<th>Accepted For Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-35D3</td>
<td>Competitive Swimming</td>
<td>54.00</td>
<td>1.00</td>
<td>Ability to swim 1200 yards in under 20 minutes;</td>
<td>CSU &amp; UC</td>
<td>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)</td>
</tr>
<tr>
<td>PE-35A2</td>
<td>Aquatic Conditioning</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed for students who want to improve their swimming and conditioning skills. This course enables the students to become physically fit while minimizing the risk of injury to joints of the body. (GC)</td>
</tr>
<tr>
<td>PE-35A3</td>
<td>Aquatic Conditioning</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed for students who want to improve their swimming and conditioning skills. This course enables the students to become physically fit while minimizing the risk of injury to joints of the body. (GC)</td>
</tr>
<tr>
<td>PE-35B2</td>
<td>Intermediate Water Polo</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year</td>
<td>CSU</td>
<td>This course is designed to teach students intermediate water polo skills and strategies. This course is highly recommended for students who wish to play water polo. (GC)</td>
</tr>
<tr>
<td>PE-36A2</td>
<td>Badminton</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to teach the student the basic fundamentals of badminton including rules and game strategy. (GC)</td>
</tr>
<tr>
<td>PE-36A3</td>
<td>Badminton</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to teach the student the basic fundamentals of badminton including rules and game strategy. (GC)</td>
</tr>
<tr>
<td>PE-36B2</td>
<td>Intermediate Badminton</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; PE-36A2 or</td>
<td>CSU &amp; UC</td>
<td>This course is designed to further develop the techniques and skill level of the badminton player. (GC)</td>
</tr>
<tr>
<td>PE-36B3</td>
<td>Intermediate Badminton</td>
<td>54.00</td>
<td>1.00</td>
<td>PE-36A3</td>
<td>CSU &amp; UC</td>
<td>This course is designed to further develop the techniques and skill level of the badminton player. (GC)</td>
</tr>
<tr>
<td>PE-36A2</td>
<td>Beginning Tennis</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed to teach the basic fundamentals, rules, and strategies pertaining to the game of tennis. (GC)</td>
</tr>
<tr>
<td>PE-36A3</td>
<td>Beginning Tennis</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>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)</td>
</tr>
<tr>
<td>PE-36B2</td>
<td>Intermediate Tennis</td>
<td>36.00</td>
<td>0.50</td>
<td>Medical check within the last year; PE-36B3 or</td>
<td>CSU &amp; UC</td>
<td>This PE course is designed to teach the basic fundamentals, rules, and strategies pertaining to the game of tennis. (GC)</td>
</tr>
<tr>
<td>PE-36B3</td>
<td>Intermediate Tennis</td>
<td>54.00</td>
<td>1.00</td>
<td>PE-36B2</td>
<td>CSU &amp; UC</td>
<td>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)</td>
</tr>
<tr>
<td>PE-366A3</td>
<td>Dance Aerobics</td>
<td>54.00</td>
<td>1.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>The student will maintain and improve cardiovascular fitness through the use of continuous rhythmic dance movements and strength building exercises. (GC)</td>
</tr>
</tbody>
</table>
PE-372A2 Conditioning
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is an aerobic type body conditioning class which includes stretching, step workout, abdominal development, and muscle toning exercises. (GC)

PE-372A3 Conditioning
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is an aerobic body conditioning class which includes a cardiovascular workout, abdominal strengthening, muscle toning, and stretching exercises. (GC)

PE-372B2 Boot Camp
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, pushups, 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. (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, pushups, 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. (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)

PE-375A2 Tai Chi
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. (GC)

PE-375A3 Beginning Tai Chi
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 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 of joint stability and increased range of motion. (GC)

PE-375B3 Intermediate Tai Chi
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This physical activity course builds upon the basic concepts learned in Beginning Tai Chi and explores Tai Chi as an ancient martial art form. Students will cultivate and implement a comprehensive personal Tai Chi practice as a lifetime fitness and leisure activity. Benefits of Tai Chi include stress reduction, improved balance and injury prevention through improvement in joint flexibility; increased range of motion; and a general sense of wellness. Tai Chi practice is modifiable for all ages and levels of fitness. (GC)

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. (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 is designed to explore the philosophies and positions related to Yoga Fundamentals. In addition, concepts of meditation and stress management will be introduced. (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. (GC)

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. (GC)

Did you know???
Community colleges offer associate degrees and short-term job training certificates in more than 175 fields, and approximately 25,000 apprentices are educated each year to meet the demand for a skilled workforce.
Source: California Community Colleges Chancellor’s Office
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. (GC)

PE-377A2  Pilates
36.00 hrs lab
Units: 0.50
Accepted For Credit: CSU & UC
This course will allow the student to increase strength, flexibility, stamina, and concentration through the use of floor exercises inspired by Joseph Pilates. This technique driven course will introduce positions and exercises such as the 100, Roll Downs, Table Top, and Roll Like A Ball. (GC)

PE-377A3  Pilates
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course will allow the student to increase strength, flexibility, stamina, and concentration through the use of floor exercises inspired by Joseph Pilates. This technique driven class will introduce exercises and positions such as the 100, Roll Downs, Table Tops, and Roll Like a Ball. (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 performed on stationary bikes. An outdoor ride is simulated; students travel on flat roads, climb hills, sprint, and race. The workout is non-impact and provides every fitness level an excellent workout. This class will burn calories, improve endurance, strengthen the lower body, and relax the mind. (GC)

PE-378A3  Indoor Cycling
54.00 hrs lab
Units: 1.00
Advisory: Medical Check within the last year
Accepted For Credit: CSU
Indoor Cycling is a group exercise class performed on stationary bikes. An outdoor ride is simulated; students travel on flat roads, climb hills, sprint, and race. The workout is non-impact and provides every fitness level an excellent workout. This class will burn calories, improve endurance, strengthen the lower body, and relax the mind. (GC)

PE-378C3  Indoor Cycling: Hills and Drills
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course is an activity-based, group fitness course which involves continuous aerobic activity on indoor cycling bikes. Students will learn proper body positions and cycling safety and participate in rhythmic drills involving variable speed and resistance simulating hills and sprints. The emphasis is on improving cardiorespiratory endurance, lower body muscular strength, and endurance; stress management; and improved health and wellness. This course is appropriate for all fitness levels. (GC)

PE-378D3  Indoor Cycling: Heart Rate Training
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course involves continuous aerobic activity on indoor cycling bikes. Students will learn to calculate their personal target heart rate zones and will use heart rate monitors and training zones to personalize their workout. Students will learn proper body positions, indoor cycling techniques, cycling safety, methods for increasing intensity, and fitness training principles and theories. The emphasis is on improving cardiorespiratory endurance and lower body muscular strength and endurance in a challenging but fun environment. This course is appropriate for all fitness levels. (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 the student reach his/her 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. (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
This course is designed to meet the student’s individualized needs through physical activity. Instruction will primarily focus on the components of muscular strength and the necessity it brings for daily living. Repeatable = 5 times (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
This course is designed to meet the student’s individualized needs through physical activity. Instruction will primarily focus on the components of muscular strength and the necessity it brings for daily living. Repeatable = 5 times (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 activity class. Individualized instruction for water safe disabled students. Repeatable = 5 times (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 activity class. Individualized instruction for water safe disabled students. Repeatable = 5 times (GC)
**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. The course 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; all graded PTA courses must be completed with a grade of C or better  
Accepted For Credit: CSU  
This course deals with the biomechanical principles of the trunk and lower extremities. It includes the kinesiological functions of muscles and muscle groups. Clinical manifestations of muscle dysfunction are covered, as well as techniques for joint measurement. Assessment by manual muscle testing and gait analysis is also covered. (GR)

**PTA-104**  
Kinesiology II  
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 cervical, upper extremities, and thoracic area of the body. It includes the kinesiological functions of muscles and muscle groups. Clinical manifestations of muscle dysfunction are covered, as well as techniques for joint measurement. Assessment by manual testing and activities of daily living are presented. (GR)

**PTA-105A**  
Therapeutic Exercise I  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: Admission to the PTA program; PTA-105A; all graded PTA courses must be completed with a grade of C or better  
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  
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 to the PTA program; 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 outpatient setting. Signs and symptoms, surgical intervention, treatment regimens, and implications for rehabilitation are all covered in this class. (GR)

**PTA-108**  
Advanced Modalities  
27.00 hrs lecture, 2700 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. (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 to 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. (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. Not applicable to associate degree. (CR)

PTA-301 Clinical Practicum I
216.00 hrs lab
Units: 4.00
Prerequisite: PTA-106
Corequisite: PTA-104, PTA-105A, 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. (CR)

PTA-302 Clinical Practicum II
216.00 hrs lab
Units: 4.00
Prerequisite: PTA-301
Corequisite: PTA-105B, PTA-109, PTA-110
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. (CR)

PTA-303 Clinical Internship
243.00 hrs lab
Units: 4.50
Prerequisite: PTA-302
Corequisite: PTA-111, PTA-140
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)
PHYSICS
Division: Science, Engineering, and Mathematics

**PHYS-108**  Survey of Physics
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163, and 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-101A
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. C-ID PHYS 105 (GR)

**PHYS-120A**  Introduction to Physics — Calculus Supplement
18.00 hrs lecture
Units: 1.00
Prerequisite: MATH-101A
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. C-ID PHYS 110 (GR)

**PHYS-121A**  Introduction to Physics II — Calculus Supplement
18.00 hrs lecture
Units: 1.00
Prerequisite: MATH-101A and PHYS-120
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: PHYS-120, PHYS-121, PHYS-140, 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. (CR)

**PHYS-140**  Mechanics
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-101A
Advisory: 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). C-ID PHYS 205 (GR)

**PHYS-141**  Electricity and Magnetism
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: PHYS-140 and MATH-101B
Advisory: 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. C-ID PHYS 210 (GR)

**PHYS-142**  Optics, Heat, and Modern Physics
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: PHYS-140 and MATH-101B
Advisory: PHYS-141 and MATH-101C
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)
Did you know???
Attending or graduating from a community college doubles an individual’s chance of finding a job compared to those who failed to complete high school.
Source: California Community Colleges Chancellor’s Office
This course provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined, as well as attention to developmental problems. C-ID PSY 180 (GC)

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)

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)

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)

This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. (GR)

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. (GR)

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)
**RT-101**  
**Principles of Respiratory Therapy I**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A; MATH-153 or MATH-155; CHEM-109 or CHEM-106A; BIOL-103A  
Accepted For Credit: CSU  
This course presents basic theory and rationale for respiratory care. It includes the history and organization of respiratory therapy services, basic cardiopulmonary anatomy and physiology, medical gas therapy theory, and an introduction to pathophysiology. (GR)

**RT-101L**  
**Beginning Clinical Practice**  
54.00 hrs lab  
Units: 1.00  
Corequisite: RT-101, RT-102, RT-103, and RT-145  
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. (CR)

**RT-102**  
**Beginning Laboratory**  
108.00 hrs lab  
Units: 2.00  
Prerequisite: MATH-153 or MATH-155; ENGL-101A; BIOL-103A; CHEM-109 or CHEM-106A  
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. (CR)

**RT-103**  
**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. (CR)

**RT-104A**  
**Principles of Respiratory Therapy II**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RT-101, RT-101L, RT-102, RT-103  
Accepted For Credit: CSU  
This course is designed to study theory related to intermediate level respiratory care skills including endotracheal intubation, management of artificial airways, humidity and aerosol therapy, beginning cardiac anatomy and physiology, and respiratory care pharmacology. (GR)

**RT-104B**  
**Principles of Respiratory Therapy III**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RT-101  
Accepted For Credit: CSU  
Theory related to analysis of cardiopulmonary assessment findings and cleaning and sterilization of respiratory care equipment. This course also includes study of additional fundamentals of respiratory physiology including assessment of oxygenation and hypoxia, beginning acid base balance, and arterial blood gas analysis. (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. (CR)

**RT-105B**  
**Intermediate Laboratory II**  
27.00 hrs lab  
Units: 0.50  
Prerequisite: RT-102  
Accepted For Credit: CSU  
This course provides laboratory practice of advanced techniques required in emergency and critical care settings within the laboratory confines. (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. (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. (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. (GR)

RT-130A  Advanced Respiratory Therapy I  
45.00 hrs lecture  
Units: 2.50  
Prerequisite: RT-104A, RT-104B, and RT-108  
Accepted For Credit: CSU  
The focus of this course is the study of advanced respiratory care. The course includes invasive and non-invasive monitoring, hemodynamic monitoring systems, advanced arterial blood gas interpretation, x-ray, clinical laboratory and electrocardiogram interpretation, and carbon dioxide transport and monitoring. (GR)

RT-130B  Advanced Respiratory Therapy II  
27.00 hrs lecture  
Units: 1.50  
Prerequisite: RT-130A  
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. (GR)

RT-130L  Advanced Clinical Practice  
108.00 hrs lab  
Units: 2.00  
Prerequisite: RT-131A  
Corequisite: RT-133  
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. (CR)

RT-130A  Principles of Mechanical Ventilation I  
45.00 hrs lecture  
Units: 2.50  
Prerequisite: RT-104A, RT-104B, RT-105B  
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. (GR)

RT-131B  Principles of Mechanical Ventilation II  
45.00 hrs lecture  
Units: 2.50  
Prerequisite: RT-131A  
Accepted For Credit: CSU  
This course builds on the foundation of Mechanical Ventilation already learned. Therapeutic interventions, complications and effects, discontinuation, and special techniques of mechanical ventilation will be presented. (GR)

RT-132  Advanced Laboratory  
54.00 hrs lab  
Units: 1.00  
Prerequisite: RT-104A and RT-104B  
Corequisite: RT-130A  
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. (CR)

RT-133  Mechanical Ventilation Laboratory  
108.00 hrs lab  
Units: 2.00  
Prerequisite: RT-131A  
Accepted For Credit: CSU  
This course provides laboratory practice of advanced skills related to the safe application and initiation of mechanical ventilation. Students will become familiar with multiple neonatal and adult mechanical ventilators as well as gain an increased understanding of the various modes offered. (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-103B, BIOL-106, and PHYS-108  
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. (GR)

RT-134L  Clinical Practicum in Neonatal and Pediatric Respiratory Care  
81.00 hrs lab  
Units: 1.50  
Prerequisite: RT-134  
Accepted For Credit: CSU  
This course offers clinical application of respiratory care procedures and techniques to the ill neonate and developing child. (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. (GR)

RT-136  Critical Care Clinical Practice  
189.00 hrs lab  
Units: 3.50  
Prerequisite: RT-130L  
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. (GR)

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 therapists 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. (GR)

RT-138  Specialty Rotations in Respiratory Care  
27.00 hrs lab  
Units: 0.50  
Prerequisite: RT-130A  
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. (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. (GR)

RT-139L  Clinical Practice in Pulmonary Function Testing  
27.00 hrs lab  
Units: 0.50  
Corequisite: RT-139  
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. (CR)

RT-145  Cardio-Pulmonary Resuscitation (CPR)  
Basic Life Support (BLS)  
9.00 hrs lecture  
Units: 0.50  
Prerequisite: The student should have the ability to read and understand the American Heart Association CPR manual. The student should have the physical ability and stamina to perform the CPR skills. Admission to the RT/RN/PTA Program.  
This course meets the American Heart Association requirements for Basic Life Support CPR training for health care providers. (GR)

SOCIOLOGY
Division: Arts and Social Sciences

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. C-ID SOCI 110 (GC)

SOC-102  Social Problems of a Diverse Society  
54.00 hrs lecture  
Units: 4.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course analyzes the nature and characteristics of social problems within the context of sociological theory. The course examines four major areas of social problems. First, it explores social problems of behavioral deviance, such as those related to sexual behavior, alcohol and drugs, violence, and crime. Second, it examines social problems of inequality, including economic, racial/ethnic, gender, and sexual orientation inequalities. Third, it looks at problems of social institutions, such as problems situated in government, work, education, health care, and the family. Fourth, it analyzes global social problems, including those related to the environment, war, and urbanization. This course introduces theoretical frameworks for understanding the causes and effects of these problems, as well as potential solutions for these problems. C-ID SOCI 115 (GC)

SOC-103  Social Science Research Methods  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course introduces students to research methods used in the social sciences. It examines critical issues and techniques in research design, data collection, and data analysis. It also investigates the ethical responsibilities of social science researchers. This course contains a lab component that provides students with practical experience in evaluating and conducting social science research. (GC)
**SPAN-101B** 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 is an introduction to the fundamentals of Spanish grammar through the development of speaking, reading, writing, and listening skills. Course material is presented within the cultural context of Spanish-speaking countries. It is a continuation of SPAN-101A studies. (GR)

**SPAN-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 or two years of 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)

**Did you know???

28% of University of California and 55% of California State University graduates started at a California community college.  
Source: California Community Colleges Chancellor’s Office
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. C-ID COMM 110 (GR)

SPCH-102  Small Group Communication/Critical Thinking  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A  
Accepted For Credit: CSU & UC  
Enhance small group communication and team building through the study of theories, concepts, and practices 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: Eligible 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. C-ID COMM 150 (GR)

SPCH-104  Critical Thinking/Persuasion  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-151B  
Advisory: ENGL-101A  
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. C-ID COMM 150 (GR)

SPCH-106  Critical Thinking/Argumentation and Debate  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
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. C-ID COMM 120 (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  
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. (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. (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. C-ID COMM 160B (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. (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. (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. (GR)

Did you know???
Transfer students from the California Community Colleges to the University of California system currently account for 48% of UC’s bachelor’s degrees in science, technology, engineering, and mathematics.  
Source: California Community Colleges Chancellor’s Office
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. (GC)

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 material. (GR)

SPCH-114A3 Oral Interpretation Workshop
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Participate in the oral interpretation of literature (poetry, prose, or drama) with an emphasis on the analysis and interpretation of the literature. (GR)

SPCH-115 Career Communication
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BA-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)

SPCH-116 Listening Techniques
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Examine listening styles and practice listening skills for college, career, and personal development. Emphasis is on the benefits of listening, listening theory, and tips for improving listening. (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 Communication of Literature
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Cross-referenced Course: TD-130
Advisory: ENGL-151B
Accepted For Credit: CSU & UC
Using performance as a communication concept, students will explore performance theory and apply and express cultural identities and the meanings they produce as communicators and performers. (GR)

SPCH-132 Voice and Diction
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: TD-132
Advisory: ENGL-151A
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)

SPCH-190A Speech Communication Lab Consultant
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. (GC)

SPCH-190B Speech Communication Lab Consultant
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. (GC)

SPCH-190C Speech Communication Lab Consultant
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. (GC)

THEATRE AND DANCE
Division: Arts and Social Sciences

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. The course is taught by three instructors, one from each discipline. (GR)

TD-102 Introduction to Theatre Appreciation
36.00 hrs lecture, 54.00 hrs lab
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. (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 course 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, 3.60 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-101A
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/T V, and festival venues. (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 advanced study in the principals 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, Viola Spolin, etc. Students will apply these principles to their scene work, improvisation, and workshop exercises, and evaluate their progress and that of their classmates. (GR) C-ID THTR 152

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 principals 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, Viola Spolin, etc. Students will apply these principles to their scene work, improvisation, and workshop exercises, and evaluate their progress and that of their classmates. (GR)

TD-112  Acting Styles — Classical
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: TD-110
Accepted For Credit: CSU & UC
This course is a study of dramatic literature for the purpose of performance, including major study of Shakespeare 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 plays. Selected plays will be studied and several will be viewed both live and on video. (GR)

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 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 and video. (GR)

TD-115A  Theatre 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, and setting. They will create through pantomime as well as vocal techniques. There will be a public performance final at the end of the term. (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/T V, and festival venues. (GR)

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/T V, and festival venues. (GR)

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/T V, and festival venues. (GR)

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. (GC)

TD-119  Directing for the Stage
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: TD-110 and 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 performance and technical roles in a repertory company. There will be a variety of plays presented for public performance. Members of the company will be expected to participate in all phases of production. (GR)

**TD-120B4**  
**Student Repertory Theatre**  
216.00 hrs lab  
Units: 4.00  
Prerequisite: Auditions (for actors only)  
Accepted For Credit: CSU & UC  
This class is a combination of professional and educational theatre. Students will participate in positions of leadership in acting and/or technical roles in a repertory company. Members of the company will be expected to participate in all phases of production, particularly in the capacity of producer, director, designer, or other position of artistic or business leadership. (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 experience. 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. The class also supports the Theatre Technology students to do the same. (GC)

**TD-121B**  
**Dance Rehearsal and Performance**  
162.00 hrs lab  
Units: 3.00  
Advisory: It is highly recommended that the student be 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. (GR)

**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. It also supports the Theatre Technology students to do the same. (GR)

**TD-124**  
**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. (GR)

**TD-125**  
**Summerfest — Principals**  
360.00 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. (GR)

**TD-126**  
**Summerfest — Featured Parts**  
315.00 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 featured role or chorus. Specific instruction will be given in acting, movement, speech, singing, and accents as they relate to the style and history of the period. (GR)

**TD-129**  
**Summerfest — Technicians**  
378.00 hrs lab  
Units: 7.00  
Advisory: TD-150  
Accepted For Credit: CSU & UC  
This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with 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. (GC)

**TD-130**  
**Oral Communication of Literature**  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Cross-referenced Course: SPCH-130  
Advisory: ENGL-151B  
Accepted For Credit: CSU & UC  
Using performance as a communication concept, students will explore performance theory and apply and express cultural identities and the meanings they produce as communicators and performers. (GR)

**TD-132**  
**Voice and Diction**  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: SPCH-132  
Advisory: ENGL-151A  
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)

**TD-141A**  
**Introduction to Ballet**  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: Medical check within 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. (GC)
**TD-142A**
**Introduction to Jazz Dance**
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn the basic skill of jazz dance with emphasis on body alignment, strength, and coordination. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

**TD-142B**
**Intermediate Jazz Dance**
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: TD-142A
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
Advisory: TD-142B
Accepted For Credit: CSU & UC
Students will complete advanced skills inherent in jazz dance. This advanced level technical jazz dance class will deal with leaps, turns, and technique as well as dance composition. 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
Accepted For Credit: CSU & UC
Students will study basic tap dance techniques and elementary tap dances. This class provides students with the opportunity 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: TD-143A
Accepted For Credit: CSU & UC
Students will further develop intricate skills in tap dancing by studying intermediate-level skills and choreography. (GC)

**TD-143C**
**Advanced Tap Dance**
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: This is an advanced level class; the student is expected to have a strong intermediate level skill set upon enrollment
Accepted For Credit: CSU & UC
Students will further develop advanced and intricate skills in tap dance by studying advanced rhythm patterns, movements, and choreography with some provision for student composition of dance. Performance skills will be included. (GC)

**TD-144A**
**Introduction to Modern Dance**
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn basic skills of modern dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

**TD-144B**
**Intermediate Contemporary Dance**
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: TD-144A
Accepted For Credit: CSU & UC
Students will further prepare their bodies as an instrument for dance, progressing to longer, faster-paced, more diversified, and more difficult movement phrases. Coursework will include some creative dance experiences, abstract dance, and musical mime. (GC)

**TD-146L**
**Open Dance Lab**
36.00 hrs lab
Units: 0.50
Corequisite: Student must be concurrently enrolled in an Ohlone dance class
Accepted For Credit: CSU
The student will have supervised and tutored studio time to perfect skills and techniques learned in a concurrently enrolled dance class. (GR)

**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. (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. (GR)

TD-148A2  Introduction to Hip Hop
36.00 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn basic skills of hip hop dance with emphasis on creative expression, strength, coordination, and rhythmic style. (GR)

TD-148A3  Introduction to Hip Hop
54.00 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn basic skills of contemporary street jazz/hip hop dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. (GC)

TD-148B2  Intermediate Hip Hop
36.00 hrs lab
Units: 0.50
Prerequisite: TD-148A2 or TD-148A3
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn, at an intermediate level, skills of hip hop dance with emphasis on creative expression, strength, coordination, rhythmic style, and improvisation. (GR)

TD-148B3  Intermediate Hip Hop
54.00 hrs lab
Units: 1.00
Prerequisite: 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. (GC)

TD-149  Choreography for Production
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
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. (GR)

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. (GR)

TD-152  Introduction to Stage Lighting and Sound
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 and sound for live events. Lectures will focus on theory and practice, while lab will provide opportunities to use equipment in real life situations. (GR)

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-loeil, and forced perspective. Students also participate in current department productions. (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. (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
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. (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
This lab provides hands-on instruction and practice in technical production for theatre, dance, and television. (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. (GC)

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, costumeing, makeup, publicity, and house management. (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, costumeing, makeup, publicity, and house management. (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, costumeing, makeup, publicity, and house management. (GR)

TD-164 Stagecraft Lab (Theatre, Television, Dance)
216.00 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, costumeing, makeup, publicity, and house management. (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: 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. (GR)

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. (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. (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 troubleshooting, servicing, and rigging, as well. (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. (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. (GC)

TD-177 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. (GC)
TD-179  **Introduction to Stage Management**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: 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  
Accepted For Credit: CSU  
In this course students will participate in the production of independent films. The positions for students include both talent and technical operations. (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. (GR)

WORK EXPERIENCE EDUCATION

Division: Business, Technology, and Learning Resources

WEX-185A2  **General 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 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. Requires a minimum of 150 hours of paid work or 120 hours of volunteer work.  
Accepted For Credit: CSU  
This course offers participants the ability to engage in work-based learning while enrolled in school to gain employment experience. 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  **General 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 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. Requires a minimum of 225 hours of paid work or 180 hours of volunteer work.  
Accepted For Credit: CSU  
This course offers participants the ability to engage in work-based learning while enrolled in school to gain employment experience. 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-195 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
This course, known as Occupational Work Experience Education, offers participants the ability to engage in work-based learning related to their college major and/or occupational goal. 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 in series to a maximum of 16 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 3 WEX units per semester for a total of 6 WEX-195 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. Requires a minimum of 150 hours of paid work or 120 hours of volunteer work.
Accepted For Credit: CSU
This course, known as Occupational Work Experience Education, offers participants the ability to engage in work-based learning related to their college major and/or occupational goal. 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 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 3 WEX units per semester for a total of 6 WEX-195 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. Requires a minimum of 225 hours of paid work or 180 hours of volunteer work.
Accepted For Credit: CSU
This course, known as Occupational Work Experience Education, offers participants the ability to engage in work-based learning related to their college major and/or occupational goal. 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 in series to a maximum of 16 units (GC)

WEX-195A4 Occupational Work Experience Education
300.00 hrs lab
Units: 4.00
Corequisite: Parallel Plan: Work and attend school at the same time. Enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-195 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. Requires a minimum of 300 hours of paid work or 240 hours of volunteer work.
Accepted For Credit: CSU
This course, known as Occupational Work Experience Education, offers participants the ability to engage in work-based learning related to their college major and/or occupational goal. 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 in series to a maximum of 16 units (GC)
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: November 9, 2005
- Board Reviewed and Re-approved: March 10, 2010

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 Services
Ohlone College
Building 7
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-6262

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

Inquiries related to compliance with the Americans with Disabilities Act and the Rehabilitation Act of 1973 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

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 Services
Ohlone College
Building 7
43600 Mission Boulevard
Fremont, CA 94539
(510) 659-6262

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 the Office of the Vice President, Student Services in Building 7, third floor on the Fremont campus and online at http://www.ohlone.edu/org/studentservices.

Such policies and procedures include the following:

- Academic Dishonesty Procedures
- General Complaint Procedures
- Equal Educational and Employment Opportunity Procedures for Handling Complaints of Unlawful Discrimination
- Unlawful Discrimination and Unlawful Harassment
- Standards of Student Conduct and Discipline and Due Process Procedures

Following are summaries and information from policies and procedures 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 Dean, Enrollment Services or with the Vice President, Student Services. 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 Academic Dishonesty Procedures are available from the Office of the Vice President, Student Services in Building 7, third floor on the Fremont campus, and online at http://www.ohlone.edu/org/studentservices/docs/academicdishonestypolicy.pdf.

Complaint Procedures

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 Services located in Building 7, third floor on the Fremont campus, (510) 659-6262 or in room NC1217 on the Newark campus, (510) 742-2302.

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 California Community Colleges Chancellor's Office also serves as a resource to students wishing to resolve complaints or grievances. The link to the process and form is at http://californiacommunitycolleges.cccco.edu/complaintsform.aspx.

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 Services on the Fremont 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 Office of the Vice President, Student Services in Building 7, third floor on the Fremont campus, and online at http://www.ohlone.edu/org/student services/policies.html. 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 Office of the Vice President, Student Services in Building 7, third floor on the Fremont campus and online at http://www.ohlone.edu/org/student services/policies.html. The Associate Vice President, Human Resources and Training 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 Office of the Vice President, Student Services in Building 7, third floor on the Fremont campus and online at http://www.ohlone.edu/org/student/services/policies.html. 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 Associate Vice President, Human Resources and Training serves as the compliance officer for ADA and Rehabilitation Act of 1973 complaints.

Students wishing to pursue a civil rights complaint beyond the college level should direct their inquiries to the Office of Civil Rights, United States Department of Education, 50 United Nations Plaza, Room 239, San Francisco, CA 94102.

UNLAWFUL DISCRIMINATION AND UNLAWFUL HARASSMENT

The District is committed to providing an academic and work environment free of unlawful harassment and unlawful discrimination. This procedure defines sexual harassment and other forms of harassment on campus, and sets forth a procedure for the investigation and resolution of complaints of harassment by or against any staff, or faculty member, or student within the District.

Definitions

General Harassment: Harassment of a student or an employee based on perceived or actual race, religion or religious creed, color, national origin, ethnic group identification, ancestry, physical disability, mental disability, sex, gender, age, or sexual orientation of any person, or based on the individual’s association with a person or group with one or more of these actual or perceived characteristics is illegal and violates District policy.

The law also protects employees from discrimination and harassment based on medical condition, marital status, gender (gender identity and gender expression), and genetic information. Gender-based harassment does not necessarily involve conduct that is sexual. Any hostile or offensive conduct based on gender can constitute prohibited harassment. For example, repeated derisive comments about a person’s competency to do the job, when based on that person’s gender, could constitute gender-based harassment.

Harassment comes in many forms, including but not limited to the following conduct:

Verbal: Inappropriate or offensive remarks, slurs, jokes, or innuendoes based on a person’s race gender, sexual orientation, or other protected status. This may include, but is not limited to, inappropriate comments regarding an individual’s body, physical appearance, attire, sexual prowess, marital status or sexual orientation; unwelcome flirting or propositions; demands for sexual favors; verbal abuse, threats, or intimidation; or sexist, patronizing, or ridiculing statements that convey derogatory attitudes based on gender, race, nationality, sexual orientation, or other protected status.

Physical: Inappropriate or offensive touching, assault, or physical interference with free movement. This may include, but is not limited to, kissing, patting, lingering or intimate touches, grabbing, pinching, leering, staring, unnecessarily brushing against or blocking another person, whistling or sexual gestures. It also includes any physical assault or intimidation directed at an individual due to that person’s gender, race, national origin, sexual orientation or other protected status.

Visual or Written: The display or circulation of visual or written material that degrades an individual or group based on gender, race, nationality, sexual orientation or other protected status. This may include, but is not limited to, posters, cartoons, drawings, graffiti, reading materials, computer graphics, or electronic media transmissions (including postings on social media).

Environmental: A hostile academic or work environment exists where it is permeated by sexual innuendo; insults or abusive comments directed at an individual or group based on gender, race, nationality, sexual orientation, or other protected status; or gratuitous comments regarding gender, race, sexual orientation, or other protected status that are not relevant to the subject matter of the class or activities on the job. A hostile environment can arise from an unwarranted focus on sexual topics or sexually suggestive statements in the classroom or work environment. It can also be created by a pattern of conduct that is sexual in nature which is so severe, pervasive, and intimidating, hostile or offensive in nature that it affects a student’s or employee’s ability to participate in, and benefit from, the educational programs and activities offered by the community college.

Sexual Harassment: In addition to the above, sexual harassment consists of unwelcome sexual advances, requests for sexual favors, and other conduct of a sexual nature when:

- submission to the conduct is made a term or condition of an individual’s employment, academic status, or progress;
- submission to, or rejection of, the conduct by the individual is used as a basis of employment or academic decisions affecting the individual;
- the conduct has the purpose or effect of having a negative impact upon the individual’s work or academic performance, or of creating an intimidating, hostile or offensive work or educational environment; or
- submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the community college.

This definition encompasses two kinds of sexual harassment:

“Quid pro quo” sexual harassment occurs when a person in a position of authority makes educational or employment benefits conditional upon an individual’s willingness to engage in or tolerate unwanted sexual conduct.

“Hostile environment” sexual harassment occurs when unwelcome conduct based on a person’s gender is sufficiently severe or pervasive so as to alter the conditions of an individual’s learning or work environment, unreasonably interfere with an individual’s academic or work performance, or create an intimidating, hostile, or abusive learning or work environment. The victim must subjectively perceive the environment as hostile, and the harassment must be such that a reasonable person of the same gender would perceive the environment as hostile.

Sexually harassing conduct can occur between people of the same or different genders. The standard for determining whether conduct constitutes sexual harassment is whether a reasonable person of the same gender as the victim would perceive the conduct as harassment based on sex.

(continued on next page)
**Examples:** Harassment includes, but is not limited to the following misconduct:

**Verbal:** Inappropriate or offensive remarks, slurs, jokes, or innuendoes based on a person’s protected status, including but not limited to sex. This may include, but is not limited to, inappropriate comments regarding an individual’s body, physical appearance, attire, sexual prowess, marital status, or sexual orientation; unwelcome flirting or propositions; demands for sexual favors; verbal abuse, threats or intimidation of a sexual nature; or sexist, patronizing, or ridiculing statements that convey derogatory attitudes about a particular gender.

**Physical:** Inappropriate or offensive touching, assault, or physical interference with free movement. This may include, but is not limited to, kissing, patting, lingering or intimate touches; grabbing, pinching, leering, staring, unnecessarily brushing against or blocking another person; whistling, or sexual gestures.

**Visual or Written:** The display or circulation of offensive sexually oriented or other discriminatory visual or written material. This may include, but is not limited to, posters, cartoons, drawings, graffiti, reading materials, computer graphics, or electronic media transmissions.

**Environmental:** An academic or work environment that is permeated with racially or sexually-oriented talk, innuendo, insults, or abuse not relevant to the subject matter of the class or activities on the job. A hostile environment can arise from an unwarranted focus on sexual topics or sexually suggestive statements in the classroom or work environment. An environment may be hostile if unwelcome sexual behavior or other harassing behavior based on a protected status is directed specifically at an individual or if the individual merely witnesses unlawful harassment in his/her immediate surroundings. The determination of whether an environment is hostile is based on the totality of the circumstances, including such factors as the frequency of the conduct, the severity of the conduct, whether the conduct is humiliating or physically threatening, and whether the conduct unreasonably interferes with an individual’s learning or work.

The District has detailed procedures for filing complaints. If at any time you feel you have been unlawfully discriminated against, harassed, or witnessed discrimination or harassment please contact the appropriate district officer/administrator for referral or resolution. The designated District officers are:

- **Dr. Ron Travenick, Vice President of Student Affairs – Student Complaints**
- **Shairon Zingsheim, Associate Vice President, Human Resources and Training – Employee complaints**
- **Ron Little, Vice President of Administrative Services – Contractors (including vendors), community members, and general public complaints.**


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**Drug Free Environment and Drug Prevention Program**

These procedures are provided to students and employees of the Ohlone Community College District in accordance with the Drug Free Schools and Communities Act Amendment of 1989; 20 U.S.C. Code Sections 1011; 1091(r); 1092(f)(1)(H); 1092(k); 1145g; 34 Code of Federal Regulations 86.1 et seq.; Federal Drug-Free Workplace Act of 1988; California Drug-Free Workplace Act, Cal. Gov. Code 8555; 41 U.S.C. Code Section 702, and the California Business & Professions Code Section 25608(a).

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. 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 per California Business and Professions 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.

Information about counseling, treatment, rehabilitation, and assistance programs may be obtained from Ohlone College counselors, Human Resources staff, the Student Health Center, and community health care providers.

Additional information contained in this procedure is on the Ohlone College Web site, AP 3550, Drug Free Environment and Drug Prevention Procedures, at [http://www.ohlone.edu/org/board/policy](http://www.ohlone.edu/org/board/policy).

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**Smoke-Free District**

The following Smoking on Campus statement is from the Ohlone College Administrative Procedures, 3570.

- **References:** Government Code Sections 7596, 7597, and 7598; Labor Code Section 6404.5; Title 8, Section 5148
- **Adopted:** January 2010 (previously Ohlone Regulation 10.1.1)
- **Draft Language:** February 2013
- **Effective:** August 26, 2013

Ohlone Community College District is a designated smoke-free district. Smoking is prohibited in all college vehicles, buildings, indoor and outdoor facilities, disabled and general use parking lots, and all open areas of district property.
STANDARDS OF STUDENT CONDUCT AND DISCIPLINE AND DUE PROCESS PROCEDURES

In joining the academic community at Ohlone College students have the right and share the responsibility to exercise the freedom to learn. Like other members of the academic community, students are expected to conduct themselves in accordance with standards of the College that are designed to perpetuate its educational purposes. These procedures are in accordance with California Education Code Section 66300, which requires each community college district to adopt standards of student conduct along with applicable penalties for violation.

A. Students shall respect and obey civil and criminal law, and may be referred to law enforcement authorities for violation of laws of the city, county, state, and nation.

B. A charge of misconduct may be imposed upon a student for violating provisions of Ohlone College regulations and the State Education and Administrative Codes as related to College attendance or while on College-owned or College-controlled property or at a College-sponsored activity (Education Code 76034). Examples of “cause” with respect to charges of misconduct are noted in Education Code Section 76033; authority for adoption of rules and regulations is noted in Section 76937. Violations of such codes and regulations, for which students are subject to disciplinary action, include, but are not limited to, the following:

1. Dishonesty, such as cheating, plagiarism, or knowingly furnishing false information to the College;
2. Forgery, alteration, or misuse of College documents, records, or identification;
3. Obstruction or disruption of instruction, administrative processes, College activities, community services, disciplinary procedures, or other authorized College activities;
4. Disrupting the peace or quiet of any part of the campus or of a member of the academic community by unauthorized loud or unusual noises; or by threatening conduct such as verbal abuse, quarreling, or challenging to fight; or by fighting;
5. Continued disruptive behavior; continued willful disobedience; habitual profanity or vulgarity; or the open and persistent defiance of the authority of College personnel or persistent abuse of College personnel;
6. Causing, attempting to cause, or threatening to cause physical injury to another person;
7. Committing any form of harassment as defined by law or by District policies and procedures;
8. Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law;
9. Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyberbullying;
10. 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;
11. Theft or damage to property belonging to the College, a member of the College community, or a campus visitor; knowingly receiving stolen District property or private property on campus; any computer-related crime as identified by the California Penal Code (502(e)(3));
12. Unauthorized entry to and/or use of College property;
13. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging, or negotiating the sales of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5;
14. 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;
15. Gambling on College property or College-controlled property;
16. 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;
17. Failure to comply with lawful directions of College officials acting in performance of their duties;
18. 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;
19. Lewd, indecent, or obscene conduct on District-owned or controlled property, or at District-sponsored or supervised functions;
20. Engaging in expression which is obscene; libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, or the violation of lawful District administrative procedures, or the substantial disruption of the orderly operation of the District;
21. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
22. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purposes, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any District policy or administrative procedures.

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.

(continued on next page)
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 Services, until date of removal of the disciplinary status.

4. Discipline policies (informal and formal) and Due Process Procedures are stated in the full policy and procedures document regarding student conduct.

STUDENT RIGHT-TO-KNOW

In compliance with the Student-Right-to-Know (SRTK) and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the Ohlone Community College District 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 baccalaureate institution (completed 56 or more transferable units with at least a 2.0 GPA). The transfer rate is the percentage of students in the cohort who have been identified as having transferred to another California Community College (CCC) or a baccalaureate 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 2005.

<table>
<thead>
<tr>
<th>Completion Rate</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohlone College</td>
<td>29.5%</td>
<td>27.7%</td>
<td>27.5%</td>
<td>28.9%</td>
<td>34.5%</td>
</tr>
<tr>
<td>Statewide</td>
<td>24.1%</td>
<td>24.8%</td>
<td>24.4%</td>
<td>24.6%</td>
<td>25.1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transfer Rate</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohlone College</td>
<td>20.4%</td>
<td>23.0%</td>
<td>17.5%</td>
<td>20.2%</td>
<td>17.7%</td>
</tr>
<tr>
<td>Statewide</td>
<td>17.9%</td>
<td>16.7%</td>
<td>15.2%</td>
<td>13.8%</td>
<td>14.4%</td>
</tr>
</tbody>
</table>

It should be noted that the cohort used for STRK represents a very small proportion of the students at Ohlone College. Many students attend Ohlone with goals other than earning a degree or certificate or preparing to transfer to a baccalaureate institution. In addition, the majority of Ohlone students attend on a part-time basis, thus excluding them from the STRK cohort.

JEANNE CLEY ACT

Who is Jeanne Clery?
In 1986 Jeanne Clery, a freshman at Pennsylvania’s Lehigh University, was murdered and sexually assaulted in her campus residence hall room by another student she didn’t know. Her school hadn’t informed students about 38 violent crimes on campus in the three years preceding her murder. Clery’s parents, Connie and Howard, led the crusade to enact the original Campus Security Act.
In 1998, Congress formally named the law in memory of Jeanne Clery.

Which schools must comply with the Clery Act?
All institutions of postsecondary education, both public and private, that participate in federal student aid programs must publish and disseminate an annual campus security report as well as make timely warnings of any criminal activities.

What does a school have to disclose under the Clery Act?
Schools must publish and disseminate an Annual Campus Security Report containing various security policies and three years worth of crime statistics. They must also issue timely warnings about crimes that pose an ongoing danger. Schools with a police or security department of any kind must also maintain a public crime log of all crimes reported to that department.

The Annual Campus Security Report is published and disseminated on or before October 1 each year. The Annual Campus Security Report is available online at www.ohlone.edu/org/security/crimeatohlone.html. Students, staff, and the general public may obtain a printed copy by contacting Campus Police Services in Building 20 on the Fremont campus.

Who is entitled to receive information under the Clery Act?
Currently enrolled students and employees are to receive a school’s annual campus security report automatically. Prospective students and employees are to be provided with information about the report and entitled to request a copy. The general public, including parents and the news media, have access to the public crime log as well.

Does a school have to submit their annual crime statistics to the Department of Education (DOE)?
Yes, they do. Schools have to report their crime statistics to the DOE through a specially designed Web site.

Do school officials other than law enforcement have reporting obligations under the Clery Act?
Yes, they do. All institutional officials with significant responsibility for campus and student activities have reporting obligations under the Clery Act. A school should have a policy for surveying these officials each year to determine if any of the covered crimes were reported to them. Only professional mental health and pastoral counselors are exempt from reporting.

Are schools required to include crimes reported to local police agencies?
Yes, they do. Schools are required to “make a reasonable, good-faith effort to obtain statistics from outside” law enforcement agencies for inclusion in their annual report for all geographic areas including the main campus.

Does someone have to be convicted of a crime before it is reportable under the Clery Act?
Not necessarily. Convictions are not required under either the Clery Act or the FBI Uniform Crime Report (UCR) program for a crime to be reportable.

Who enforces the Jeanne Clery Act and what are the penalties for noncompliance?
The United States Department of Education is charged with enforcing the Jeanne Clery Act and may level civil penalties against institutions of higher education up to $27,500 per violation or may suspend them from participating in federal student financial aid programs. Complaints of violations should be filed with DOE regional offices.

Do schools have to add arson and manslaughter, as well as a geographic breakdown to their annual crime statistics?
Yes, they do.

(continued on next page)
What is the difference between FBI’s Uniform Crime Reporting (UCR) program and the Clery Act?

There are several key differences between how crime statistics are reported under the UCR program and the Clery Act. The UCR program is a voluntary program where law enforcement agencies submit monthly reports, while reporting under the Clery Act is mandatory and not limited to crimes reported to law enforcement. Additionally, some reporting categories are different, specifically simple theft is not included and the definition of sexual assault is broader under the Clery Act.

Does the Clery Act follow the guidelines established in the UCR program?

Where guidance from the UCR program does not conflict with Clery Act reporting requirements schools are expected to follow the classifying and scoring methods outlined in the FBI UCR Handbook.

If more than one crime occurs in the same incident, which offense is reported?

Under a UCR standard known as the “hierarchy rule” only the most serious (using the order found in the UCR Handbook) incident is to be reported in annual crime statistics. The crime log and timely warnings may reflect more than one crime.

REGISTERED SEX OFFENDERS: MEGAN’S LAW

Notification

California Penal Code Section 290.01 requires everyone who was convicted of a sex offense to register with the Campus Police Department of a college or university within five (5) days where he/she is:

1. Enrolled as a full-time student.
2. Enrolled as a part-time student.
3. Employed as a full-time staff, faculty, or instructor.
4. Employed as a part-time staff, faculty, or instructor.
5. Employed as a full-time or part-time classified employee.
7. A contractor who is contracted by the College or University to work on campus.
8. A carrier driver who delivers to that College or University more than 14 consecutive days or 30 days in a calendar year (i.e. water delivery; mail; VTA drivers; Outreach drivers; armored car drivers; telephone, gas, and electricity technicians; computer technicians; office supply drivers, and others).

This section does not relieve the person to register as a Sex Offender with a jurisdiction where he/she is residing. The registrations as a Sex Offender with a College or University Police Departments are in addition to the registration with the local police and sheriff’s departments.

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-swatch 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 college community. They make inspections of facilities to insure physical security; design and present programs to reduce risk from criminal acts; review plans and new construction additions to facilities to insure against design defects that could contribute to criminal acts; make preventative patrols of grounds; make necessary arrests and detentions; and interact with all other law enforcement and investigative agencies.

Crime prevention and safety information such as Preventing Sexual Assault, Escort Service, Earthquake Procedures, and Parking Rules and Regulations include safety tips and are provided by Campus Police Services. This information is available online at http://www.ohlone.edu/org/security/brochures.html. Information regarding how to call Campus Police for emergencies is available online at http://www.ohlone.edu/org/security/. Information on how to report crimes is available online at http://www.ohlone.edu/org/security/reportcrime.html. A rape awareness program is held once a year for both staff and students.

Crime Statistics

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (commonly known as the Clery Act) is federal legislation designed to provide students, prospective students, and the public with uniform information from universities throughout the country on criminal problems and police and security issues. The following table meets all reporting requirements as set forth in the Clery Act. Criminal statistics are updated by October 1 of each year and include data from the three previous calendar years.

<table>
<thead>
<tr>
<th>Crime Type</th>
<th>Fremont Campus 2010</th>
<th>Fremont Campus 2011</th>
<th>Fremont Campus 2012</th>
<th>Newark Campus 2010</th>
<th>Newark Campus 2011</th>
<th>Newark Campus 2012</th>
<th>College District Total 2010</th>
<th>College District Total 2011</th>
<th>College District Total 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homicide</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>Manslaughter</td>
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<td>Rape</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>Sexual Assault</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Robbery</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Aggravated Assault</td>
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<tr>
<td>Assault with a Deadly Weapon</td>
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<tr>
<td>Simple Assault</td>
<td>3</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>Burglary</td>
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<td>0</td>
<td>8</td>
<td>1</td>
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<tr>
<td>Theft</td>
<td>22</td>
<td>16</td>
<td>17</td>
<td>6</td>
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<td>Auto Theft</td>
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<td>Drug Law Violation</td>
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<td>1</td>
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<td>Illegal Weapons Possession</td>
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<td>0</td>
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<tr>
<td>Vandalism</td>
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<td>82</td>
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<td>Hate Crimes</td>
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<tr>
<td>Other Offenses</td>
<td>27</td>
<td>49</td>
<td>58</td>
<td>12</td>
<td>12</td>
<td>9</td>
<td>39</td>
<td>61</td>
<td>67</td>
</tr>
</tbody>
</table>

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, Safety and Security to maintain the Procedures Manual and communicate additions and deletions to employees.

(continued on next page)
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 staff stalls only); C (staff stalls only); Q, T, and W on the Fremont campus and those spaces designated as Administration, Maintenance or Police/Emergency Vehicle. See the Ohlone College campus maps for disabled parking locations; these locations 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 has carpool, Disabled parking, and coin operated meter parking. These parking stalls are used by visitors, guests, and students for up to two-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, O or P 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.

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 both the Fremont and Newark campuses.
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 campuses, 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, driver’s license, and proof of insurance 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, and prohibited drugs and narcotics 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 in order for the broken machine to be repaired.

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 *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/.
Ohlone celebrates the 40th anniversary of the Deaf Center in 2012.
## ADMINISTRATION

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter Birkedahl</td>
<td>Dean, Arts and Social Sciences</td>
</tr>
<tr>
<td>Michael Bowman</td>
<td>Dean, Research and Planning</td>
</tr>
<tr>
<td>Gari Browning</td>
<td>President/Superintendent</td>
</tr>
<tr>
<td>Lesley Buehler</td>
<td>Dean, Business, Technology, and Learning Resources</td>
</tr>
<tr>
<td>Gale Carli</td>
<td>Dean, Health Sciences and Environmental Studies</td>
</tr>
<tr>
<td>Bruce Griffin</td>
<td>Associate Vice President, Information Technology/Chief Technology Officer</td>
</tr>
<tr>
<td>Mike Holtclaw</td>
<td>Dean, Science, Engineering, and Mathematics</td>
</tr>
<tr>
<td>Mark Lieu</td>
<td>Dean, Language and Communication</td>
</tr>
<tr>
<td>Ronald Little II</td>
<td>Vice President, Administrative Services</td>
</tr>
<tr>
<td>Leta Stagnaro</td>
<td>Vice President, Academic Affairs/Deputy Superintendent</td>
</tr>
<tr>
<td>Ron Travenick</td>
<td>Vice President, Student Services</td>
</tr>
<tr>
<td>Christopher Warden</td>
<td>Director, Kinesiology, Athletics, and Community Education</td>
</tr>
<tr>
<td>Shairon Zingsheim</td>
<td>Associate Vice President, Human Resources and Training</td>
</tr>
</tbody>
</table>

## MANAGEMENT

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patrice Birkedahl</td>
<td>Director, College Advancement</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>Kelly Green</td>
<td>HERO Grant Program Coordinator</td>
</tr>
<tr>
<td>Daman Grewal</td>
<td>Director, Technical Services</td>
</tr>
<tr>
<td>Deborah Griffin</td>
<td>Director, Financial Aid</td>
</tr>
<tr>
<td>Kate Harrison</td>
<td>Coordinator, Community Education and Workforce Development</td>
</tr>
<tr>
<td>Susan Houghton</td>
<td>Executive Director, Ohlone College Foundation</td>
</tr>
<tr>
<td>Gary Kauf</td>
<td>Director, Television Operations</td>
</tr>
<tr>
<td>Alex Lebedeff</td>
<td>Director, Purchasing, Contracts, and Auxiliary Services</td>
</tr>
<tr>
<td>Thomas Moore</td>
<td>Director, Facilities and Modernization</td>
</tr>
<tr>
<td>Danny Navarrete</td>
<td>Off-Site Employment Developer</td>
</tr>
</tbody>
</table>

## CONFIDENTIALS

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelly Abad</td>
<td>Confidential Assistant to the Vice President, Administrative Services</td>
</tr>
<tr>
<td>Vy Anderson</td>
<td>Senior Human Resources Specialist</td>
</tr>
<tr>
<td>Jennifer Drake</td>
<td>Senior Human Resources Specialist</td>
</tr>
<tr>
<td>Shelby Foster</td>
<td>Confidential Staff Assistant</td>
</tr>
<tr>
<td>Kathleen Johnson</td>
<td>Senior Human Resources Specialist</td>
</tr>
<tr>
<td>Patricia Lessard</td>
<td>Confidential Interpreter/Coordinator</td>
</tr>
<tr>
<td>Jill Rojas</td>
<td>Confidential Assistant to the Vice President, Student Services</td>
</tr>
<tr>
<td>Connie Tesheara</td>
<td>Confidential Assistant to the Vice President, Academic Affairs</td>
</tr>
</tbody>
</table>

## BOARD OF TRUSTEES

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greg Bonaccorsi</td>
<td></td>
</tr>
<tr>
<td>Kevin Bristow</td>
<td></td>
</tr>
<tr>
<td>Teresa Cox</td>
<td></td>
</tr>
<tr>
<td>Jan Giovannini-Hill</td>
<td></td>
</tr>
<tr>
<td>Vivien Larsen</td>
<td>Chair</td>
</tr>
<tr>
<td>Richard Watters</td>
<td></td>
</tr>
<tr>
<td>Garrett Yee</td>
<td>Vice Chair</td>
</tr>
<tr>
<td>Prabhjot Kaur</td>
<td>Student Board Member</td>
</tr>
</tbody>
</table>

## EMERITUS

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norma Alexander</td>
<td>Professor, Mathematics</td>
</tr>
<tr>
<td>Elaine C. Ames</td>
<td>Instructional Assistant, Typing</td>
</tr>
<tr>
<td>Robert H. Anderson</td>
<td>Bookstore Manager</td>
</tr>
<tr>
<td>Dan Archer</td>
<td>Board of Trustees</td>
</tr>
<tr>
<td>John Baczkuk</td>
<td>Professor, English</td>
</tr>
<tr>
<td>Iola Barber</td>
<td>Professor, Biology</td>
</tr>
<tr>
<td>Donna J. Bartlett</td>
<td>Program Specialist</td>
</tr>
<tr>
<td>Clayton J. Bell</td>
<td>Professor, Counseling</td>
</tr>
<tr>
<td>Bruce Bennett</td>
<td>Professor, English</td>
</tr>
<tr>
<td>Dolores E. Bischer</td>
<td>Instructional Assistant, Reading Lab</td>
</tr>
<tr>
<td>Janice M. Blanchard</td>
<td>Director General Services/Purchasing</td>
</tr>
<tr>
<td>Ward S. Blanchard</td>
<td>Director of Library Services</td>
</tr>
<tr>
<td>Thomas Blank</td>
<td>Professor, Theatre</td>
</tr>
<tr>
<td>Peter Blomerley</td>
<td>Professor, President/Superintendent</td>
</tr>
<tr>
<td>William E. Blum</td>
<td>Professor, Psychology</td>
</tr>
<tr>
<td>Charles E. Boggs</td>
<td>Warehousekeeper</td>
</tr>
<tr>
<td>Sally A. Brenner</td>
<td>Professor, Medical Office Assisting</td>
</tr>
<tr>
<td>Curtis Bressler</td>
<td>Professor, Mathematics</td>
</tr>
<tr>
<td>Robert L. Briggs</td>
<td>Professor, Drafting, Dean, Occupational Education and Grants</td>
</tr>
<tr>
<td>Martha Brown</td>
<td>Professor, Dean, Counseling</td>
</tr>
<tr>
<td>Ronald C. Burdett</td>
<td>Professor, Dean, Deaf Studies and Special Services</td>
</tr>
<tr>
<td>Barbara M. Burri</td>
<td>Professor, Early Childhood Studies</td>
</tr>
<tr>
<td>Anthony C. Cardinale</td>
<td>Chief, Safety/Security Officer</td>
</tr>
<tr>
<td>Colleen M. Carr</td>
<td>Interim Division Dean</td>
</tr>
<tr>
<td>Roy Chitwood</td>
<td>Instructional Assistant, Math Learning Center</td>
</tr>
<tr>
<td>Betty A. Clamp</td>
<td>Professor, Consumer &amp; Family Sciences</td>
</tr>
<tr>
<td>L. Stacy Cole</td>
<td>Professor, History</td>
</tr>
<tr>
<td>Miloslava Collins</td>
<td>Professor, French and German</td>
</tr>
<tr>
<td>Jack Croghan</td>
<td>Professor, Physical Education</td>
</tr>
<tr>
<td>Susan Cunningham</td>
<td>Professor, English</td>
</tr>
</tbody>
</table>
Associate Professor, English/Writing Lab

Raphael DeBenito (1971-1996)  
Professor, Spanish

Executive Assistant to the President/Superintendent

Juan dela Cruz (1975–2006)  
Custodian

Senior Office Assistant

Professor, History

Professor, Mathematics

Frances S. DiPippo (1967-1992)  
Professor, English

Nancy A. Duman (1972-1992)  
Professor, Nursing

Professor, Engineering

Claire C. Ellis (1993-2011)  
Professor, Counselor

Professor, Business/Work Experience Education

Stephen E. Epler (1966-1975)  
President/Superintendent

Kathryn A. Farley (1990-2002)  
District Cashier

Ruthie Foster (1986-2007)  
Board of Trustees

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Vice President, Business Services

Gloria Villasana Fuerniss (1979-1997)  
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Professor, Biology

Professor, Supervision

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Assistant Professor, Landscape/Horticulture

Professor, Art

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Professor, English, Speech and Communication Studies

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Professor, English

Karen M. Hendrickson (1990-2001)  
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Willie D. Jackson (1981-1997)  
Lead Custodian

Professor, Business Administration

Meredith Kane (1972-1996)  
Professor, Counseling

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Dean of Instruction

Administrative Secretary II

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Professor, English/Journalism

Administrative Secretary

Board of Trustees

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Senior Media Assistant

Vice President, Instruction

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Jim Kment (1967-2005)  
Professor, Chemistry

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Professor, Business Office Technology

Yu-Hong Kong (1974-2007)  
Desktop Support Technician II

Elene M. Kraft (1981-2002)  
Word Processing Specialist

Judith E. Kruppenbacher (1969-2001)  
Professor, Psychology/Counseling

Professor, Library Media

Custodian/Pool Maintenance

Joan Leclercq-Rotar (1967-2000)  
Professor, Business Office Technology

Adjunct Instructor, Theatre Arts

Sharlene Limón (1974-2007)  
Dean, Health Sciences

Victoria Loukianoff (1998-2011)  
Assistant Professor, Mathematics

Cynthia Ann Luckoski (1974-2010)  
Professor, Art

Professor, English

Assistant Dean, Student Services

Nancy F. Manley (1973-1996)  
Professor, Nursing

Assistant Professor, English/Reading Lab

Shirin Masketia (1989-2010)  
Professor, English

Vice President, Instruction

David E. McLaughlin (1967-1999)  
Professor, Art

Patricia Moeller (1973-1995)  
Professor, Nursing

Margaret S. Morrisson (1972-2000)  
Professor, Speech

Sheldon Nagel (1968-1997)  
Professor, History; Division Dean, Math, Social and Natural Sciences

F. Frank Nakasako (1968-1988)  
Assistant Dean of Counseling

Venki Narayan (1983-2010)  
Professor, Engineering and Physics

Mark Nelson (1977-2011)  
Professor, Theatre

Audree L. Norton (1975-1992)  
Professor, Hearing Impaired

John P. O’Connor (1968-1998)  
Professor, Mathematics

Bennett Oppenheim (1976-2009)  
Professor, Sociology

Professor, Administration of Justice

William Parks (1972-2010)  
Professor, Journalism

Deborah Parziale (1979-2012)  
Professor, Nursing

Marlys J. Pavol (1967-2001)  
Professor, Biology

Professor, Physical Education

Adam Peck (1999-2005)  
Professor, Computer Studies

Kiyoko Penso (1979-2002)  
Programmer/Analyst

Jack Peters (1976-2007)  
Professor, Counseling

Richard Peters (1979-1993)  
Assistant to the President

Associate Professor, Geography/Anthropology/Geology

Ron Quinta (1990-2012)  
Associate Professor, Geography/Anthropology/Geology

Lead Operator/Operations Supervisor

Professor, Psychology

Gloria Reid (1980-2005)  
Professor, English

Professor, Journalism

Professor, Physical Education

William B. Richter (1968-1979)  
President/Superintendent

Dennis Roby (1971-2004)  
Professor, Philosophy

Karen Rosenbaum (1967-2001)  
Professor, English

Maria L. Sanchez (1984-2000)  
Professor, Tutorial Coordinator

Kate A. Scholz (1981-2003)  
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Lamar Schurtz (1987-2007)  
Building Trades/Maintenance Plumber

Professor, English

Robert M. Seiden (1968-2001)  
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Coordinator, Career Planning & Placement Center

Vajinder Pal Singh (1972-2012)  
Professor, Mathematics

David W. Smith (2005-2011)  
Executive Director, Ohlone College Foundation

Gary Soren Smith (1967-1993)  
Division Director

Work Processing Operator

Ollie M. Smith (1975-2000)  
Accounting Technician II

Associate Professor, Administration of Justice

Carla Soracco (1978-1995)  
Professor, Physical Education
FULL-TIME FACULTY

Brenda Antholz
Professor, Speech and Communication Studies
B.A., University of Nebraska; M.A., University of Northern Iowa

Sandra Ammons
Associate Professor, American Sign Language
B.A., Gallaudet University; M.S., McDaniel College

James Andrews
Associate Professor, Accounting/Business Administration
B.A., University of Missouri-Columbia; M.B.A., Saint Louis University; Ed.D., The University of New Mexico

Rick Arellano
Professor, Computer Applications and Occupational Technology
B.A., M.A., San Francisco State University

Narinder Bansal
Instructor, Environmental Studies, Geography, Biology
B.A., M.A., California State University, East Bay

Darren Bardell
Assistant Professor, History
B.A., University of California, Santa Barbara; M.A., San Diego State University

Mark Barnby
Professor, Biology
B.S., University of Louisville; Ph.D., University of California, Berkeley

James Baxter
Professor, Biology
B.S., M.A., University of Kansas; Ph.D., University of California, Berkeley

Danijela Bedic-Babic
Instructor, Computer Information and Communication Technologies (CNET)
B.S., M.S., Zagreb University, Croatia

Paul Belasky
Professor, Geology/Geography
A.B., University of California, Berkeley; M.S., San Jose State University; Ph.D., University of California, Los Angeles

Diane Berkland
Assistant Professor, Counselor
B.A., California Lutheran University; M.A., San Jose State University

Walter Birkedahl
Associate Professor; Dean, Arts and Social Sciences
B.Mus., University of Texas, Austin; M.B.A., George Mason University; M.Mus., Catholic University of America

Steven Biter
Professor, Mathematics
B.A., Humboldt State University; M.S., San Diego State University

Michael Blaisted
Instructor, Respiratory Therapy; Respiratory Therapist Program Director
A.S., Ohlone College; B.S., University of Kansas

Andrew Bloom
Assistant Professor, Mathematics
B.S., M.A., Wake Forest University

Christine Bolt
Professor, Business Administration
B.A., University of California, Davis; M.B.A., California State University, Sacramento

Michael Bowman
Professor; Dean, Research and Planning
B.A., University of Redlands; M.A., San Jose State University

Robert Bradshaw
Professor, Mathematics
A.B., University of California, Berkeley; M.S., California State University, Hayward

Mark Brosamer
Professor, English
B.A., University of California, Los Angeles; M.A., University of Washington

Gari Browning
President/Superintendent
B.A., University of California, Irvine; M.A., Ph.D., University of California, Los Angeles

Lesley Buchler
Associate Professor; Dean, Business, Technology, and Learning Resources
B.S., University of Phoenix; M.A., San Jose State University

Gale Carli
Professor; Dean, Health Sciences and Environmental Studies
B.S.N., University of San Francisco; M.S., San Francisco State University; Ph.D., Argosy University

Diane Cheney
Assistant Professor, Learning Disabilities
B.A., Mills College; M.A., California State University, East Bay

Richard Cominos
Assistant Professor, Administration of Justice
A.A., Hartnell College; B.A., M.S., San Jose State University

Sarah Cooper
Associate Professor, Psychology
B.A., Northern Arizona University; M.A., Humboldt State University

2013-2014 OHLONE COLLEGE CATALOG
Janet C orcoran  
Assistant Professor, Counselor  
A.A., Ohlone College; B.A., M.S., California State University, Hayward

Mary Curtis  
Associate Professor, English as a Second Language  
B.S., Trenton State College; Ed.M., Temple University

Nadia Dadgar  
Assistant Professor, Counselor  
B.S., M.A., California State University, Hayward

Carrie Dameron  
Assistant Professor, Medical/Surgical Nursing  
A.A., Ohlone College; B.S., M.S., University of Phoenix

Cecile Davila  
Professor, English  
B.S., De La Salle University, Philippines; M.S., California State University, Fullerton

Jeffrey Dean  
Associate Professor, English Composition  
A.A., East Los Angeles College; A.B., University of California, Berkeley; M.A., University of San Francisco

Luc Desmedt  
Professor, Physics/Astronomy  
B.A., University of Antwerp, Belgium; Ph.D., University of Louvain, Belgium

Michael De Unamuno  
Instructor, Counselor  
A.A., Ohlone College; B.S., California State University, Sacramento; M.A., San Jose State University

Barbara Duggal  
Associate Professor, Learning Resource Center  
B.A., Hunter College of the City University of New York; M.A., University of California, Los Angeles; M.L.I.S., San Jose State University

Sherly Eidal  
Associate Professor, PTA Program  
B.S., California State University, Hayward; M.S., University of Southern California

Xisheng Fang  
Professor, Computer Science  
M.S., Ph.D., Shanghai Jiao Tong University, China; M.S., Columbia University

Melanie Fernandez  
Instructor, English  
A.A., Ohlone College; B.A., University of California, Berkeley; M.A., California State University, East Bay

Angelique Finney  
Assistant Professor, Biotechnology/Microbiology  
B.S., M.S., Washington State University

Katherine Frank  
Associate Professor, Art  
B.A., Tulane University; M.A., California College of Arts and Crafts

Debra Franklin  
Instructor, Nursing  
A.A., Chabot College; B.S., Excelsior College; M.S., Walden University

Perri Gallagher  
Associate Professor, English  
B.A., University of California, Berkeley; M.A., Stanford University; Ph.D., Alliant University

Anusree Ganguly  
Professor, Chemistry  
B.S., Sophia College; University of Bombay, India; Ph.D., Southern Illinois University

Yong Gao  
Professor, Computer Science  
M.S., M.S., Ph.D., Southern Illinois University

Robin Gordon  
Instructor, Respiratory Therapy; Clinical Education Director  
AA., Napa Valley College; B.A., California State University, Hayward

Maria-Eugenia Grant  
Associate Professor, Chemistry  
B.S., Ph.D., National University of Mexico; M.S., California State University of Delaware

Kathleen “K.G.” Greenstein  
Associate Professor, Information Literacy/Collection Development Librarian  
B.A., California State University, Chico; M.L.S., San Jose State University

Richard Grotegut  
Professor, Computers, Networks, and Emerging Technology  
B.A., M.A., San Jose State University

Jennifer Harper  
Associate Professor, Counselor  
B.A., Sonoma State University; M.A., San Jose State University

Yvonka Headley  
Assistant Professor, Counseling  
B.A., M.A., San Jose State University

Sheldon Helms  
Associate Professor, Psychology  
B.A., M.A., California State University, Bakersfield

Geoffrey Hirsch  
Professor, Mathematics  
B.A., University of California, Berkeley; M.A., University of the Philippines

Thomas Holcomb  
Professor, Deaf Studies/ASL  
B.A., Gallaudet University; M.S., Rochester Institute of Technology; Ph.D., University of Rochester

Mike Holtzclaw  
B.A., Lewis and Clark College; M.A., Ohio State University; Ph.D., Ohio State University

Chieko Honma  
Associate Professor, Mathematics  
B.S., M.S., San Jose State University

Jennifer Hurley  
Associate Professor, English  
B.A., University of California, San Diego; M.A., Boston University

Laurie Issel-Tarver  
Assistant Professor, Biotechnology; Coordinator  
B.S., Louisiana University; Ph.D., University of California, Berkeley

Janice Jones  
Professor, Early Childhood Studies  
B.A., M.A., California State University, Hayward; Ed.D., University of San Francisco

Ilene Katz  
Professor, Mathematics  
B.S., M.S., Monmouth College

Margaret Kaufman  
Professor, Biology  
B.S., Cornell University; M.A., Ph.D., Princeton University

Kerrie Kawasaki-Hull  
Professor, English  
A.B., University of California, Davis; M.Ed., University of California, Los Angeles; M.A., California Polytechnic State University, San Luis Obispo

Dennis Keller  
Professor, Music  
B.M.Ed., Mount Union College; M.M., University of Arizona

E. Gene Kendall  
Associate Professor, Physical Education; Men’s Water Polo Coach  
B.S., San Jose State University; M.A., Saint Mary’s College of California

Sandra Kloppping  
Professor, Deaf Studies, Deaf Students/American Sign Language  
B.S., Indiana University; M.Ed., University of Arizona; M.A., California State University, Northridge

Alison Kuelmer  
Professor, English  
B.A., University of California, Berkeley; M.A., University of Chicago

Robin Kurutori  
Associate Professor, Health/Fitness and Wellness  
B.A., California State University; M.S., California State University, East Bay

Mandy Kwok-Yip  
Assistant Professor, Counselor  
Special Education Teaching Credential, Sir Robert Black College of Education, Hong Kong; M.A., San Jose State University

Shelley Lawrence  
Professor, Deaf Studies/Interpreting/American Sign Language  
B.A., California State University, Northridge; M.A., California State University, Hayward

Deborah Lemon  
Associate Professor, Spanish  
B.A., North Carolina State University; M.A., University of California, Santa Barbara

Mark Lieu  
Dean, Language and Communication  
B.A., University of California, Davis; M.A., San Francisco State University

Jesse MacEwan  
Assistant Professor, Counselor  
B.A., M.A., San Francisco State University

Carmen Madden  
Associate Professor, English  
A.A., Chabot College; B.A., M.A., San Francisco State University

Teresa Massimo  
Associate Professor, Speech and Communication Studies  
B.A., California State University, Fresno; M.A., California State University, Chico

Heather McCarty  
Associate Professor, History  
B.S., University of California, Los Angeles; M.A., Ph.D., University of California, Berkeley

J. Michele McDowell  
Associate Professor, Early Childhood Studies  
B.S., California State Polytechnic University, Pomona; M.B.A., University of California, Irvine; M.S., California State University, Hayward

James McManus  
Professor, Music  
B.A., University of California, Santa Cruz; M.A., University of Massachusetts; D.M.A., University of Illinois

Kenney Mencher  
Associate Professor, Painting/Art History  
B.A., City University, New York; M.A., University of California, Davis; M.F.A., University of Cincinnati

Robert Mitchell  
Associate Professor, English  
B.A., Abilene Christian College; M.A., Lone Mountain College; M.A., Holy Names College

---

**Did you know?**  
Students who earn a California community college degree or certificate nearly double their earnings within three years.  
Source: Community College League of California
Carol Morodomi
Assistant Professor, Physical Therapist Assistant Program/Academic Coordinator Clinical Education (ACC)
B.S., M.P.T., California State University, Fresno

Fatemeh (Tina) Mosleh
Assistant Professor, Economics
B.A., M.A., San Jose State University

Paul Mueller
Assistant Professor, Art (Photography)
B.A., San Francisco Art Institute; M.F.A., Stanford University

Tania Mundinger
Professor, Mathematics
M.A., Saratov State University of Chernyshevsky, Russia; Ph.D., Moscow State Pedagogical University, Russia

Susan Myers
Associate Professor, Counselor
B.A., M.A., University of Nevada, Reno; Ed.D., San Francisco State University

Anh Nguyen
Associate Professor, Mathematics
B.S., University of California, Davis; M.S., San Jose State University

Jeffrey O’Connell
Assistant Professor, Mathematics
A.A., Diablo Valley College; B.S., University of California, Davis; M.S., San Jose State University

Matthew O’Donnell
Assistant Professor, Entertainment Design and Technology
B.A., San Jose State University; M.F.A., University of Washington

Connie Olsen
Associate Professor, English as a Second Language
B.A., California Baptist University; M.A., Claremont Graduate University; M.A., University of Buffalo; M.A., Ohio University

Rosemary O’Neill
Assistant Professor, Counselor
B.A., M.A., Humboldt State University

Steven Osawa
Assistant Professor; Chief, Safety and Security
B.S., California State University, Los Angeles

Denise Owen
Professor, Art
B.Arch., Miami University, Ohio; M.Arch., University of California, Berkeley

Nancy Pauliukonis
Professor, Deaf Studies/Deaf Students/English
B.S., University of Tulsa; M.A., San Jose State University

Mylene Pelimiano
Associate Professor, Mathematics
B.S., M.S., California State University, Hayward

John Peterson, Jr.
Associate Professor, Physical Education; Men’s Basketball Coach
B.A., University of California, Santa Barbara; M.A., University of California, San Francisco

Maria Ramirez
Associate Professor, Counselor
B.A., M.S., California State University, Hayward

Stephanie Ramos
Assistant Professor, Counselor
B.A., St. Mary’s College; M.S., University of La Verne

Isabel Reichert
Instructor, Multimedia
B.F.A., Hochschule der Bildenden Kuenste Saar, Germany; M.F.A., San Francisco Art Institute

Brenda Reynoso
Assistant Professor, Counselor
B.A., University of California, Berkeley; M.A., San Jose State University

Jeffrey Roberts
Associate Professor, Physical Education; Athletic Trainer
B.S., University of Iowa; M.S., University of Arizona

Timothy Roberts
Assistant Professor, Music (Commercial)
B.S., Kalamazoo College; MA, San Jose State University

Donna Runyon
Professor, Physical Education, Women’s Softball Coach
B.S., Lock Haven State University; M.A., Saint Mary’s College of California

Rosalie (Sally) Scofield
Associate Professor, Medical/Surgical Nursing
B.S., University of San Tomas, Philippines; M.S., San Francisco State University

Rachel Sherman
Associate Professor, English
B.A., M.F.A., Mills College

Robert Smedfjeld
Associate Professor, Mathematics
B.E., State University of New York at Stony Brook; M.S., Stanford University; M.S., California State University, Hayward

Katherine Sparling
Associate Professor, Systems and Technical Services Librarian
B.A., M.L.I.S., University of California, Berkeley

Leta Stagner
Professor, Vice President, Academic Affairs/Deputy Superintendent
B.S., M.S., California State University, Hayward; M.B.A., University of Phoenix; Ed.D., Saint Mary’s College of California

Kim Stiles
Professor, Nursing
A.A.S., State University of New York; B.S.N., Excelsior College; M.S.N., The College of New Rochelle; Ph.D., California Institute of Integral Studies

Rakesh Swamy
Associate Professor, English
B.A., Brigham Young University; M.S., California State University, Hayward

Wayne Takakawa
Professor, Counselor
B.A., City College of New York; M.S.W., Hunter College

Terri Taskey
Professor, Learning Disabilities Counselor
B.A., St. Lawrence University; M.A., California Polytechnic State University, San Luis Obispo

Janel Tomblin-Brown
Assistant Professor, Dance
AA, San Jose City College; B.A., San Jose State University

David Topham
Associate Professor, Computer Science
B.A., California State University, Hayward; M.A., Santa Clara University

Ron Travennick
Associate Professor; Vice President, Student Services
B.S., M.Ed., Western Washington University; Ed.D., Alliant University

Debra Trigg
Associate Professor; Director, Campus Activities and Extended Opportunity Programs and Services
B.A., California State University, Hayward; M.S.W., University of Michigan

Barbara Tull
Professor, English Composition
A.A., Chabot College; B.A., California State University, Hayward; M.A., University of California, Davis

Bernadette Van Deusen
Professor, Nursing
B.S.N., M.S.N., Duke University

Tracy Virgil
Associate Professor, English
B.A., University of California, Berkeley; M.A., San Francisco State University

Christopher Warden
Assistant Professor; Director, Kinesiology, Athletics, and Community Education
B.A., California State University, Long Beach; M.S., Illinois State University

Jeffrey Watanabe
Associate Professor, Biology
B.A., University of Colorado; Ph.D., Florida Institute of Technology
CLASSIFIED STAFF

Robert Adamic
Radio Station Technician
Broadcasting/Radio Operations

John Agapen
Custodian
Facilities

Fred Alim
Theatre Arts Technician
Division of Arts and Social Sciences

Elliott Almeida
Gardener/Groundkeeper
Facilities

Josefina Alvarez
Senior Institutional Business Analyst
Administrative Services

Gosia Asher
Marketing Lead
College Advancement

Marcie Avina
Staff Captioner II
Interpreting and Accommodations Services

Alisa Balao
Safety Officer II
Campus Police Services/Safety and Security

Trang Banh
Student Applications Coordinator
Office of Financial Aid; Office of Admissions and Records

Cynthia Banuelos
Buyer
Purchasing, Contracts, and Auxiliary Services

Heidi Barkow
Educational Services Support I
Curriculum and Scheduling Office; Office of Admissions and Records

Inga Bellamy
Student Services Assistant
Extended Opportunity Programs and Services

Irene Benavides
Executive Assistant
Division of Science, Engineering, and Mathematics

Sandy Bennett
EOPS/CARE Program Coordinator
Extended Opportunity Programs and Services

Reginaid Burdett
Staff Interpreter II
Interpreting and Accommodations Services

Shirley Calvert
Program Coordinator Case Manager
One-Stop Career Center

Kara Cattivera
Staff Interpreter II
Interpreting and Accommodations Services

Guang-Wen (Kevin) Chen
Systems and Applications Administrator
Information Technology

Suporn Chenhansa
Workforce Investment Act Eligibility Coordinator
One-Stop Career Center

Jolie Chevalier
Registration Coordinator
Office of Admissions and Records

Ying-Chao Chi
Accounting Technician IV
Business Services

Nora Chopelas
Executive Assistant
Division of Deaf Studies

Keith Clark
Senior Facility Maintenance Mechanic
Facilities

Monique Clark
Staff Interpreter I
Interpreting and Accommodations Services

Alma Collopy
Senior Office Assistant
Campus Police Services/Safety and Security

Elliott Cragen
Staff Interpreter I
Interpreting and Accommodations Services

Liz Crisp
IT Support Technician II
Information Technology

Bobbie Jo Curtis
Executive Assistant
Business Services

Arti Damani
Accountant
Business Services

Maria Tanya DeGuzman-Viera
Regional Specialist
Gallaudet University Regional Center

James Dempsey
Custodian
Facilities

Minh Dinh
Financial Aid/Admissions and Records Communications Management Technician
Office of Financial Aid

Gerry Dulalia
Staff Interpreter I
Interpreting and Accommodations Services

Jackie Dumont
Instructional Assistant
Division of Language and Communication

Patricia Elizondo
Staff Interpreter II
Interpreting and Accommodations Services

Richard Espinoza
Custodian
Facilities

Jacob Equibel
Facility Maintenance Mechanic I
Facilities

Frances Fon
Transfer Center Specialist
Counseling Department

Mary Fontanilla
Instructional Assistant, Reading Lab
Division of Language and Communication

Janice Fonteno
Student Services Assistant
Office of Financial Aid

Adam Fresquez
Theater Operations Technician
Division of Arts and Social Sciences

Willie Gallegos
Custodian/Pool Maintenance
Facilities

Antonio Garcia
Custodian
Facilities

Regina Garges
Coordinator, Health Sciences Lab
Division of Health Sciences and Environmental Studies

Diana Garza
Executive Assistant to the Associate Vice President
Newark Center for Health Sciences and Technology

Juan Gomez
Gardener/Groundkeeper II
Facilities

Jasper Gong
Technical Coordinator
Division of Arts and Social Sciences

Renee Gonzales
Campus Activities Program Coordinator
Campus Activities

Arnulfo Gonzalez
Custodian
Facilities

Maria Gonzalez
Theatre Operations Assistant
Theatre Department

Ingrid Granados-Thomas
Instructional Assistant, Reading Lab
Division of Language and Communication

Emily Grantz
Learning Resources Technician
Division of Business, Technology, and Learning Resources

Helena Ha
Lab Technician-Microbiology/Biology
Division of Science, Engineering, and Mathematics

Raeenette Halliwell
Facilities Operations Assistant
Facilities

Thomas Harchous
Facility Maintenance Mechanic I
Facilities

Cassandra Harrah
Student Services Assistant
Office of Admissions and Records

Robert Hayden
IT Support Technician I
Information Technology

Anna Hernandez
Staff Interpreter I
Interpreting and Accommodations Services

Robert Hernandez
Job Developer
One-Stop Career Center

Lynn Hickson
IT Support Technician II
Information Technology

Abby Hirashiki
Career Center Case Manager
One-Stop Career Center

Shirleen Ho
Information Systems Engineer
Information Technology

Carol Hoagland
Senior Office Assistant
Campus Police Services/Safety and Security

Nam Hoang
Senior Accountant, Accounts Receivable
Business Services

Sheila Holland
Executive Assistant
Division of Arts and Social Sciences
Did you know?

In 2011-2012 over 16,000 California community college students transferred to the University of California; over 51,000 transferred to the California State University; almost 20,000 transferred to private colleges and universities in California; and 21,000 transferred to out-of-state colleges and universities. In total, over 108,000 California community college students transferred to a baccalaureate institution in 2011-2012!

Source: Community College League of California
**Did you know?**

The California Community Colleges is the most cost-effective system of education in California. While the state revenue needed to support one community college full-time student is slightly more than $5,000 per year, that same student costs approximately $7,500 in the K-12 system and $20,000 and $11,000, respectively, at UC and CSU.

Source: California Community Colleges Chancellor’s Office
DISTRICT DIRECTORY

Fremont Campus

General Information .................................................................(510) 659-6000
Admissions and Records .........................................................(510) 659-6100
Arts and Social Sciences Division Office ................................(510) 659-6216
Bookstore .....................................................................................(510) 659-6061
Business, Technology, and Learning Resources Division Office ..(510) 659-6080
Campus Activities .................................................................(510) 659-6255
Campus Police/Security .............................................................(510) 659-6111
Cashier ...........................................................................................(510) 659-6073
Center for Deaf Studies ...............................................................(510) 659-6269 Voice
Child Development Center .........................................................(510) 659-6100
Counseling Appointments ........................................................(510) 659-6079
Counseling Division Office .........................................................(510) 659-6037
Counseling for Deaf and Hard of Hearing ..................................(510) 659-6079 Voice
Deaf Studies Division Office ......................................................(510) 659-6269 Voice
Disabled Students Programs and Services ...............................(510) 659-6079
E-campus ......................................................................................(510) 979-7579
EOS ..............................................................................................(510) 659-6152
Financial Aid ...............................................................................(510) 659-6150
International Programs and Services ........................................(510) 659-6439
Interpreter Services .................................................................(510) 659-6271 V/TTY
Kinesiology and Athletics Division Office ................................(510) 659-6044
KOHL Radio (FM 98.3) ..............................................................(510) 659-6221
Language and Communication Division Office ........................(510) 659-6173
Learning Disabled Students ......................................................(510) 659-6079
Learning Resource Center .........................................................(510) 659-6160
Ohlone Foundation .................................................................(510) 659-6020
Placement Testing Center ........................................................(510) 659-6126
Science, Engineering, and Mathematics Division Office ..........(510) 659-6191
Student Health Center .............................................................(510) 659-6258
Student Success Center ............................................................(510) 979-7555
Transfer Center ...........................................................................(510) 659-6241
Tutoring Services .........................................................................(510) 659-6172
Veterans’ Services .......................................................................(510) 659-6199

Newark Campus

General Information .................................................................(510) 742-2300
Administration Office ............................................................(510) 742-2302
Admissions and Records ........................................................(510) 742-2340
Campus Police/Security ...........................................................(510) 742-2311
Community Education .............................................................(510) 742-2303
Counseling ...................................................................................(510) 742-2340
E-campus .....................................................................................(510) 742-3130
Financial Aid ................................................................................(510) 742-2340
Health Sciences and Environmental Studies Division Office ......(510) 742-3100
Learning Resource Center .........................................................(510) 742-3127
Ohlone for Kids ............................................................................(510) 742-2304
One-Stop Career Center ..........................................................(510) 742-2323
Student Services .........................................................................(510) 742-2340
Glossary

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 course that students are recommended to take before registering in another course, but are not required to do so. Students are encouraged to take an Advisory course before registering for another course as the information in the first course will help them succeed in the second course. For example, ENGL-120A, Survey of American Literature: Beginning to 1865, has an Advisory of ENGL-101A, Reading and Written Composition.

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 and General Education courses at Ohlone College. The Associate in Arts (AA) and Associate in Science (AS) are degrees that may be earned at Ohlone College.

Associate Degree Applicable Courses: Courses are degree applicable unless identified in the College Catalog, Class Schedule, and WebAdvisor 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.

Associate Degree for Transfer: Senate Bill 1440 (SB1440) was signed by Governor Schwarzenegger in September 2010. SB1440 guarantees admission to a California State University (CSU) campus for any California community college student who completes an “associate degree for transfer,” a variation of the associate degrees traditionally offered at a California community college. Ohlone currently has five approved Associate Degrees for Transfer—Kinesiology, Communication Studies, Mathematics, Psychology, and Sociology.

Audit: An enrollment status in a class where no units or grades are awarded.

Baccalaureate: Refers to the bachelor’s degree usually achieved after four years of undergraduate college study. Ohlone College offers the first two years of baccalaureate work in many fields of study.

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.

C-ID: A statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. For example, Ohlone’s MATH-101A has a C-ID number of MATH 210; this information appears in the course listing in this catalog, the Class Schedule, and WebAdvisor.
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 course that must be taken during the same term as another course. Students need to take both courses during the same semester as information is shared between the courses and students will have better chance of succeeding. For example, students who register for GEO L-102L, Oceanography Laboratory, also need to register for GEO L-102, Introduction to Oceanography, during the same semester.

Course Identification Numbering System: See C-ID

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.

Education Plan: Individualized plan to guide students in completing educational goals and/or degree requirements.

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.


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: Transferable 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. Ohlone has three GE Plans—Ohlone GE (Plan A), CSU GE (Plan B), and IGETC (Plan C).

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.

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 an associate degree or an occupational certificate.

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 course that needs to be successfully completed with a grade of C or better before a student can register for another course. The prerequisite course contains knowledge and skills that will enable the student to be more prepared for the next course. For example, students must complete MATH-188, Pre-Calculus, with a grade of C or better before being able to register for 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.

SB1440: Senate Bill 1440 was signed by Governor Schwarzenegger in September 2010. SB1440 guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer," a newly established variation of the associate degrees traditionally offered at a California community college. Ohlone currently has five approved associate degrees for transfer—Communication Studies, Kinesiology, Mathematics, Psychology, and Sociology.

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.

Selected Topics: Courses that 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 courses are not UC or CSU transferable.

Special Projects: Courses designed for students who wish to undertake an individual study or to complete research related to a particular field.

Special Student: A K-12 student who attends Ohlone before graduating from high school.

Student Education Plan: Individualized plan to guide students in completing educational goals and or degree requirements. Students should see an Ohlone counselor for assistance in creating a Student Education Plan.

Student Help: Students working on campus jobs funded by Ohlone College are considered Student Help.

Student Learning Outcomes (SLO's): The knowledge, skills, and abilities that students will have attained as a result of completing a course or program successfully.

TBA: To Be Announced (TBA) is noted in the Class Schedule or WebAdvisor when the instructor, room, or time of a class is not yet known.

Title 5: The education component of the California Code of Regulations, which all public educational institutions in California (K-12, community colleges, CSU's, and UC's) must follow.

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.

Waitlisting: A process where students can “wait in line” electronically for a full class. Students are notified via e-mail once they are added into a class via the waitlist, and can monitor their status on the waitlist via their WebAdvisor account.

WebAdvisor: Web registration system for students to add and drop classes, pay fees, and check grades. WebAdvisor is available at https://webadvisor.ohlone.edu.

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 ........................................................ 239
Academic Dishonesty ..................................................... 239
Academic Dismissal .......................................................... 40
Academic Division Information ......................................... 131
Academic Freedom .......................................................... 237
Academic Probation ......................................................... 39
Academic Programs .......................................................... 58
Academic Progress – Student Responsibilities .................... 44
Academic Regulations ....................................................... 39
Academic Renewal ............................................................ 40
Academic Standing ............................................................ 39
Accounting ..............................................................................
   (BA, See Business Administration) Courses ............... 154
Accreditation ...................................................................... 10
Adding Classes ................................................................. 23
Administration of Justice (AJ) Courses ......................... 132
Admission ............................................................................ 15
Admissions and Records ................................................... 26
Advanced Placement (AP) Credit ..................................... 43, 45
Advisory Committees ......................................................... 123
Advisory Courses ............................................................... 129
Air Force (AF) Courses ..................................................... 133
Allied Health (AH) Courses ............................................. 134
American Sign Language (ASL) Courses ....................... 134
Anthropology (ANTH) Courses ....................................... 157
Applying for Admission ................................................... 16
Arabic (ARBRC) Courses ............................................... 138
Arts (ART) Courses ........................................................... 138
Associate Degree for Transfer to CSU ......................... 48
Associate Degrees: Multidisciplinary Majors .................... 48
Associate Degrees: Majors for Students Intending to Transfer 48
   Associate Degrees: Occupational Majors .................... 49
   Associate in Arts/Science Degree ................................. 48
   Associate in Science for Transfer (AS-T Degree) ........ 48
Astronomy (ASTR) Courses ............................................. 144
Athletics ............................................................................. 28
Athletics (AFHL) Courses ............................................... 144
Attendance ................................................................. 114, 44
Auditing .............................................................................. 42
Authority for Law Enforcement ...................................... 244
Basic Skills ...................................................................... 28, 43
Biology (BIOL) Courses ................................................... 147
Biotechnology (BIOT) Courses ....................................... 148
Board of Trustees .............................................................. 14, 247
Bookstore .......................................................................... 28
Broadcasting (BRDC) Courses ........................................ 152
Business Administration (BA) Courses ......................... 154
Business Supervision/Management (BSM) Courses ....... 156
C-ID ................................................................................... 130
Calculus and Vending Services ....................................... 34
CalWORKs Program ............................................................. 30
Campus Police/Safety and Security Services .................. 28
Campus Tours ................................................................. 15
CARE Program ................................................................. 30
Carnegie Unit ................................................................. 12
Catalog Rights Policy ....................................................... 144
Center for Dead Studies .................................................. 12
Certificate of Accomplishment ....................................... 52
Certificate of Achievement ............................................... 52
Chemical Technology (CHMT) Courses ......................... 157
Chemistry (CHEM) Courses ............................................. 157
Chicano/Latino Studies (CHS) Courses ......................... 159
Chinese (CHIN) Courses ............................................... 159
Civil Rights Complaints ............................................... 240
Class Schedule ................................................................. 22
Classifications, Student ................................................... 41
Clear Standing ................................................................. 39
Clubs and Organizations .................................................. 34
College Personnel ............................................................... 246
Communication (COMM) Courses ............................... 160
Community College System ............................................ 10
Community Education ....................................................... 13
Complaint Procedures ..................................................... 239
Complaints .......................................................... Academic 239
   Civil Rights ................................................................. 240
   General Student ........................................................ 239
   Section 504/ADA Compliant .................................. 240
   Title IX ................................................................. 239
   Unlawful Discrimination ........................................... 240
   Unlawful Harassment ............................................... 240
   Completion Rate ....................................................... 243
Computer Applications and Occupational Technology (CAOT) Courses 160
   Computers, Networks, and Emerging Technology (CNET) Courses 162
   Computer Science (CS) Courses ................................ 167
   Concurrent Enrollment ............................................... 54
   Consumer and Family Sciences (CFS) Courses .......... 170
   Conversion to Quarter Units ....................................... 42
   Conversion from Quarter Units .................................. 42
   Co-Curricular Activities .............................................. 34
   Cooperative Agencies Resources for Education (CARE) Program .... 30
   Corequisite Courses ..................................................... 129
   Counseling Department ............................................... 29
   Course Descriptions ................................................... 129
   Course Grading Policy ................................................ 130
   Course Identification Numbering System .................... 130
   Credit by Examination ............................................... 43
   Credit for Military and Non-college Courses/Training .... 43
   Crime Prevention .......................................................... 244
   Crime Statistics ............................................................ 244
   Cross-Registration ......................................................... 54

2013-2014 OHLONE COLLEGE CATALOG
INDEX

Refunds .......................................................... 38
Registration .................................................. 22, 23, 25
Reinstatement .................................................. 40
Release of Student Information ..................... 44
Reversal of Courses ....................................... 22, 42
Requisite Courses .......................................... 129
Residency ...................................................... 16
Respiratory Therapist (RT) Courses .............. 224
Respiratory Therapist Program ...................... 16
Revision of Regulations .................................. 14
Scholarships ................................................... 32
Section 504/ADA Complaint ......................... 240
Selected Topics Courses .............................. 130
Semester System .......................................... 42
Senate Bill 1440 .............................................. 48
Smith Center .................................................. 12
Smoke-Free District ....................................... 241
Sociology (SOC) Courses ............................ 226
South Bay Regional Public Safety Training
Consortium ................................................... 131
Spanish (SPAN) Courses ............................. 227
Special Projects Courses ............................... 151
Special Student Admission (K-12 Students) .... 17
Speech and Communication Studies (SPCH) Courses ........................................ 228
Standards of Student Conduct and Discipline 242
Student Access to Records ......................... 239
Student Activities ......................................... 34
Student Activity Fee ...................................... 36
Student Conduct ........................................... 242
Student Government ..................................... 34
Student Health Center .................................. 35
Student ID Card ............................................. 28, 36
Student Learning Outcomes ......................... 27, 28, 49
Student Life ................................................... 35
Student Load/Overload Guidelines ................ 41
Student Responsibilities ............................... 44
Student Right-to-Know .................................. 243
Student Services .......................................... 26
Student Services Curriculum ....................... 27
Student Classifications ................................. 41
Study Abroad Program ................................ 13
Subject to Dismissal ......................................
Academic ...................................................... 39
Progress ...................................................... 40
Theater and Dance (TD) Courses .................. 229
Title IX .......................................................... 238, 239
Tours .............................................................. 13
Transcripts .................................................... 16
Transfer Admission Guarantees (TAG) .......... 54
Transfer Associate Degrees ......................... 48
Transfer Center ............................................ 46
Transfer Credit .............................................. 46
Transfer Planning ......................................... 35
Transfer Programs ....................................... 54
Transfer Rate ................................................. 243
Transfer to Universities ............................... 52
California State University ......................... 53
University of California .............................. 53
Private and Out-of-State Colleges and
Universities .................................................. 54
Tri-Cities One-Stop Career Center ............... 35
Tutoring Services .......................................... 35
Unit of Credit Definitions ............................ 42
University Transfer ....................................... 52
Unlawful Discrimination ............................... 240
Unlawful Harassment ................................... 240
Unpaid Financial Obligations ...................... 38
Veterans ....................................................... 55, 44
Vision, Mission, Values, and Goals .............. 22
 waitlisting ..................................................... 22
WebAdvisor .................................................. 23, 24
Withdrawal from Class ............................... 44
Work Experience Education (WEX) Courses ... 235

260 2013-2014 OHLONE COLLEGE CATALOG