2007–2008 Academic Calendar

Fall Quarter 2007
June 20      Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
Sept. 24     Instruction Begins
Nov. 12      Veterans Day; Campus Closed
Nov. 22–23   Thanksgiving Recess; Campus Closed
Dec. 11–14   Final Examinations
Dec. 17-Jan. 4 Winter Recess

Winter Quarter 2008
Oct. 20      Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
Jan. 7       Instruction Begins
Jan. 21      Martin Luther King Jr.’s Birthday; Campus Closed
Feb. 15      Lincoln’s Birthday; Campus Closed
Feb. 18      Washington’s Birthday; Campus Closed
March 25–28  Final Examinations
March 21–April 4 Spring Recess

Spring Quarter 2008
Jan. 20      Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
April 7      Instruction Begins
May 26       Memorial Day; Campus Closed
June 24–27   Final Examinations
June 27      Commencement Ceremony; 6 p.m.; Library Quad

Summer Session 2008
June 30–Aug. 8 Six-Week Session
June 30–Aug. 22 Eight-Week Session

†Orientation for international students on F-1 visas is held four to five weeks prior to start of class. See page 19.

The Summer Session 2008 calendar is tentative and subject to a final collective bargaining agreement.

For additional important deadlines and dates, review the college calendar at www.foothill.edu.
FOOTHILL COLLEGE
A public two-year college of the
Foothill-De Anza Community College District

Main Campus
12345 El Monte Road
Los Altos Hills, CA 94022-4599
(650) 949-7777; (650) 948-6025, TDD

Middlefield Campus
4000 Middlefield Road
Palo Alto, CA 94303-4739
(650) 949-6950

www.foothill.edu

To request this publication in alternative media such as
Braille or large print, call (650) 949-7673.

This Catalog Is Your Key to Success
All the information you need to succeed as a Foothill College
student is in this catalog. The following pages contain a
wealth of information about courses, campus resources,
student services, program descriptions, degree requirements,
and college policies and procedures. Use it to:
- Plan your educational program;
- Understand Foothill College policies and procedures;
- Learn about course and degree requirements; and
- Find important dates, phone numbers and locations.

Rules & Policies May Change
The Foothill-De Anza Community College District
and Foothill College have made every reasonable
effort to determine that information in this catalog is
accurate. Changes may result from California legislature
statutes or rules and policies adopted by the Foothill-
De Anza Community College District Board of Trustees,
chancellor or institutional designee. Courses and
programs offered, together with other matters contained
herein, are subject to change without notice by the
administration of the Foothill-De Anza Community
College District or Foothill College for reasons related to
student enrollment, level of financial support, or for any
other reason, at the discretion of the district and college.
The district and college further reserve the right to add,
amend or repeal any of its rules, regulations, policies
and procedures.

On the Cover
The logo design for the Foothill College 50th anniversary
was created by Foothill College student Linn Haddock as
part of a graphic design contest conducted in the GID 51:
Graphic Design Studio II course taught by Foothill Graphic
& Interactive Design Instructor Joe Ragey.
This fall, Foothill College begins its 50th year of providing quality higher education, innovative instruction, outstanding faculty and staff, and comprehensive student support services to Silicon Valley.

We invite you to join us for a year-long 50th anniversary celebration of Foothill College, and the impact the college has made on thousands of Silicon Valley residents, who recognize that lives change in profound and positive ways at Foothill.

Foothill College students and employees intend to use this anniversary celebration to reflect on our proud educational heritage as we carefully engineer how the college will continue serving new generations of Foothill students and community members.

With new President Judy C. Miner, Ed.D., at the helm of our internationally acclaimed institution, and the addition of thoroughly modern and new facilities, including the Life Science Building, Student Services Building, Campus Center and Lohman Theatre, Foothill College continues moving forward on important initiatives, such as Measures E and C, the Basic Skills Initiative and new programs to serve Silicon Valley residents.

Foothill will officially inaugurate President Miner as the college’s sixth president Thursday, Oct. 18, from 2 to 4 p.m. in the Smithwick Theatre. Recognizing her deep commitment to strengthening the college for students, faculty and staff, and her capacity for accomplishing it, the Foothill-De Anza (FHDA) Community College District Board of Trustees unanimously confirmed Dr. Miner as the sixth president of Foothill College in April 2007.

As president, Miner will pursue excellence through inclusion by strengthening participation for all members of the campus community, ensuring that all voices are heard, and actively engaging with community leaders to develop mutually beneficial relationships. Her goal is to draw upon the collective wisdom of the institution, and tap into the vision of the extraordinary individuals who make Foothill College what it is. She will also build upon Foothill’s tradition of excellence by reaching out to more students, particularly those from underrepresented populations, and helping them succeed in school, and to lifelong learners in the community, offering them enriching experiences that have been a hallmark of the college’s innovative instruction.

Miner brings a broad range of experience to her new position. She served as the vice president of instruction at Foothill’s sister school, De Anza College in Cupertino, and held a variety of administrative positions at De Anza since 1988. Before coming to De Anza, she worked for several years in the California Community Colleges statewide office. She holds a doctorate in education from the University of San Francisco, and master’s and bachelor’s degrees in history from Lone Mountain College in San Francisco.

Dr. Miner succeeds Penny Patz, Ed.D., Foothill’s respected interim president for the 2006-2007 academic year. Dr. Patz began her career as a member of the Foothill College faculty in 1989, and advanced within the institution to later serve as its vice president of Technology, Instruction & Career Work Force Education. Foothill faculty, staff and President Miner are deeply indebted to Dr. Patz for ensuring the quality of instruction, continuing progress on multiple campus construction projects, and providing collegial leadership in the college’s transition from the leadership of Foothill President Emerita Bernadine Chuck Fong, Ph.D., who retired in 2006, to the leadership of Foothill President Miner.

Join us for 50th anniversary events throughout the coming year, including the grand opening of Foothill’s new Campus Center and Lower Campus Complex facilities Sept. 25 from 4 to 7 p.m. Then return to Foothill throughout the year for exciting theatre and dance performances, informative lectures, and the popular activities featured during Jewish Heritage Month in January, Black History Month in February, Women’s History Month in March, Asian Pacific Islander Heritage Month in April, Latino Heritage Month in May, and Gay, Lesbian, Bisexual & Transgender Heritage Month in June.

We are honored that our community has entrusted us with the precious jewel that is Foothill College, and we pledge to carry on its hallmark of educational opportunity for all with innovation and distinction now and into the future.

Judy C. Miner, Ed.D., President Foothill College
Important Campus Phone Numbers  Area Code 650  unless otherwise noted

Emergency 911
Adaptive Learning 949-7332
Admissions & Records 949-7325
Bookstore 949-7305
Career Center 949-7229
Counseling Appointments 949-7423
CTIS Computer Lab 949-7303
Disability Resource Center 949-7017
District Police (Non-emergency) 949-7313
English Writing Center 949-7290
ESL Writing Center 949-7923
Evening/Weekend Programs 949-7711
Extended Opportunity Program & Services (EOPS) 949-7207
Financial Aid 949-7245
Grades by Phone 917-0509 or (408) 777-9394
Health Services 949-7243
Honors Institute 949-7638
IDEA Lab 949-7137
Internship Program Office 604-5560
Language Arts Lab 949-7452
Library 949-7392
Lost & Found 949-7313
Marketing & Communications 949-7362
Placement Testing 949-7650
Prerequisites/ Matriculation Office 949-7512
Psychological Services 949-7910
Register by Phone 917-0509 or (408) 777-9394
Student Activities 949-7282
Theater Box Office 949-7360
Transfer Center 949-7235
TDD for Hearing Impaired 948-6025
Tutorial Center 949-7447
Veterans Office 949-7001
Volunteer Center 949-7634

Middlefield Campus 949-6950
Admissions 949-6980
Bookstore 949-6975
Computer Courses & Labs 949-6957
Counseling 949-6959
Student Services & Student Center 949-6958

Continued on page 4

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“My experience at Foothill College remains one of the brightest, most exciting and productive periods of my life. Foothill gave me my first real taste of what life offered, what my true potential entailed and where my dreams could take me if I dared to follow them. I still think of Foothill College as my intellectual home. It’s the place where I was given the opportunity to explore my heart, expand my mind, and be free to grow, learn, fail, and ultimately triumph. On every trip I take to the Bay Area, I make time to visit Foothill to walk its quiet paths, enjoy its lush landscape, or stand on the stage of the Smithwick Theatre and reflect on the wealth of knowledge and experience I was generously afforded while at Foothill.”

Robb Derringer, A.A., B.A., earned the Foothill College Associate in Arts Degree in Drama and Certificate of Completion from the Foothill Theatre Conservatory. He then transferred to UCLA and completed a bachelor’s degree in theatre arts. He has studied acting, dance and voice with leading luminaries of the theatre world, and has performed lead, recurring and guest roles in numerous feature films, television series and national commercials.
College Profile

Foothill-De Anza Community College District Mission
The Foothill-De Anza Community College District provides a dynamic learning environment that fosters excellence, opportunity and innovation in meeting the educational needs of our diverse students and community.

Foothill College Vision, Values, Purpose & Mission

Our Vision
Students who attend our college achieve their goals because relevant instruction occurs in an engaging, stimulating, inclusive manner, and appropriate support services are provided. Students feel accepted as part of the Foothill family and realize they made the right choice in choosing Foothill to further their education and personal development.

Our Values, Purpose & Mission
At Foothill, our vision is built on the following core values, purpose, and mission:

- Our core values are honesty, integrity, trust, openness, and forgiveness;
- Our purpose is to provide educational opportunity for all with innovation and distinction; and
- Our mission is to promote student learning through lower-division academic instruction, career preparation, and continuous workforce improvement to advance California’s economic growth and global competitiveness.

Foothill College provides educational opportunity for all who can benefit from the instruction and support services offered. Foothill College is a multicultural institution committed to meeting the evolving educational, economic and cultural needs of an increasingly technology-based global community. Foothill fulfills its mission by offering academic courses, programs and services unique to the Silicon Valley.

Classes and programs are scheduled to maximize student accessibility in a variety of settings and modes. Foothill provides the necessary support services to help students with diverse needs and learning styles succeed in reaching their educational goals.

Foothill College Offers:

- an Associate in Arts or Associate in Science degree, or certificate
- preparation for transfer to another college, university or postsecondary institution
- career education, training, and services
- basic skills, English as a Second Language (ESL), leadership skills and student development
- student support services to promote student success

Foothill's success is measured by the following quality indicators:

1. Access: Educational Opportunity for All
2. Student Success: Completion of Student Goals
3. Pedagogy, Scholarship & Support of Learning
4. Climate for Learning
5. Fiscal & Enrollment Stability
6. Reputation: Innovation & Distinctiveness

—Adopted by the College Roundtable, Feb. 24, 1999; revised by the College Roundtable, April 6, 2005.
Our History

The Foothill-De Anza Community College District was formed Jan. 15, 1957, following several months of study by citizens groups and the California Department of Education. The district covers an area of about 105 square miles and includes the Palo Alto Unified School, Mountain View-Los Altos Union High School and Fremont Union High School districts.

On Sept. 15, 1958, we opened a temporary campus on El Camino Real in Mountain View. The Los Altos Hills Main Campus was completed and opened to students in September 1961.

In 1967, the district opened its second campus, De Anza College, in Cupertino. The two colleges coordinate programs and services, thereby providing our students with the flexibility to enroll in courses at both campuses.

Foothill: An Outstanding Community College

Founded with the hallmark of educational opportunity for all, Foothill College is recognized internationally as one of the nation's most outstanding community colleges. Students of all ages enroll at Foothill for a single class, one- or two-year degree programs, or to complete general education requirements for transfer to four-year universities. Our academic programs lead to Associate in Arts or Associate in Science degrees. They also meet freshman and sophomore requirements of University of California, California State University and private education systems. In addition, we offer many professional and technical programs for students seeking re-training or career advancement.

Foothill serves northern Santa Clara County, educating more than 18,000 day and evening students at the Main Campus, Middlefield Campus in Palo Alto, online, and many community and industry sites each quarter.

Committed to Our Community

We are committed to community education. At Foothill College, we:

- Offer low-cost, quality education.
- Recognize that our students have different, changing educational needs.
- Strive to create a college community of students, faculty and other educational workers.

Our educational process should help you:

- Develop and recognize human dignity.
- Think for yourself, learn to learn, and practice creative arts and skills.
- Become a contributing community member.

We meet our commitments by providing:

- An academic program to help you transfer to a four-year college or university.
- Professional and technical programs to help you develop skills for job entry, re-entry and career upgrading.
- A general-education program to broaden educational and cultural experiences.
- Remedial and developmental education to bring basic skills up to full potential.
- Excellence in all academic programs, student services and community-outreach programs.
- Convenient community classrooms.
- Out-of-class activities so you can learn in less formal, more hands-on environments.
- A counseling and matriculation program to help you recognize your capabilities, and educational and life goals.
- Health services, psychological services, financial aid, job counseling and placement testing.
- Partnerships with social and educational agencies, business and industry to determine and serve our community's educational needs.
- Cultural programs, recreational activities, resources and facilities available to the general public.

We Celebrate Diversity

We value the incredible diversity of students on our campus and continually work to meet the needs of this entire population. Our faculty, staff and administrators believe that teaching a multicultural perspective is just as important as teaching reading, writing and technology in today's world.
Accreditation

Foothill is accredited by the Accrediting Commission for Community & Junior Colleges of the Western Association of Schools & Colleges. This organization is recognized by the Council on Postsecondary Accreditation and the U.S. Department of Education.

Foothill is also accredited by the Council of Dental Education of the American Dental Association, Council of Medical Education, American Medical Association and Federal Aviation Administration.

“The Most Beautiful Community College”

The Foothill College campus is located on 122 acres in the rolling foothills of Los Altos Hills. The campus adjoins El Monte Road and Interstate 280, the scenic Junipero Serra Freeway.

The American Institute of Architects has honored Foothill for its outstanding design, and a San Francisco Chronicle architecture critic called our campus “the most beautiful community college ever built.” The distinctive Pacific-style architecture harmonizes with the surrounding hillside community, creating an elegant but informal atmosphere conducive to college study.

Measures C & E

Campus Improvements

Measures C and E are plans to renovate existing college facilities as well as construct new facilities at Foothill College and De Anza College. Voters approved the passage of Measure E in 1999 and the passage of Measure C in 2006. Funding for Measure C and E projects is generated from general obligation bonds. These funds are not subject to state budget cuts and can only be used for facilities projects. To review Measures C and E projects at Foothill College, access www.foothill.edu.

Campus Highlights

- All-Weather Track
- Bamboo Garden & Azumaya Meditation Pavilion
- Campus Center
- Chinese Heritage Room
- Choral Building & Appreciation Hall
- Computer Centers
- Dental Health Clinic
- Football Stadium

- Full-Service Web Site at www.foothill.edu
- Golf Instruction Complex
- Hubert H. Semans Library & Instructional Support Center
- Japanese Cultural Center
- Krause Center for Innovation
- Language Arts Lab
- Lohman Theatre
- Lower Campus Complex
- Math, Physics & Chemistry Center
- Middlefield Campus in Palo Alto
- Multimedia Arts IDEA Computer Lab
- Observatory
- Olympic-Size Swimming Pool
- Robert C. Smithwick Theatre
- Softball/Soccer Field
- Student-Operated KFJC-FM Radio Station
- Tutorial Center
- Veterinary Technology & Horticulture Complexes
- Wellness Center

Public Events & Services

Performances: Foothill presents plays, concerts, gallery exhibits, films and lectures to enrich the cultural and educational experiences of community residents. Fine arts performances include music, dance, theater and special children’s programs. For information about upcoming events or to purchase tickets, call the Foothill Box Office at (650) 949-7360 or access www.foothill.edu.

Celebrity Forum: The highly successful Foothill College Celebrity Forum series, created by Dr. Richard Henning, brings high-profile speakers to Flint Center at De Anza College in Cupertino. For more information, call (650) 949-7176 or access www.celebrityforum.net.

Facility Rental

Foothill classroom, conference, physical education and theatre facilities are available to the public when they are not being used for campus activities. Rental fees include rental, set-up, cleaning, necessary staff coverage and equipment.

If you are interested in renting a Foothill facility, contact the facilities coordinator to request an application. Visit the Physical Education Division, Room 2713, or call (650) 949-7380. To schedule an event in the Robert C. Smithwick Theatre or Appreciation Hall, call the Fine Arts & Communication Facilities Office at (650) 949-7252. To schedule an event at the Middlefield Campus facility, call (650) 949-6953.
“Clubs, organizations, sports or extracurricular activities—make time for them and participate! These activities are fun, and they demonstrate to university admissions officers and potential employers that you’re well rounded. By participating in campus life activities, you’ll learn to network, collaborate, prioritize and manage your time.”

—Erion Moore II, transferred from Foothill College to Southern Oregon University to major in criminology and play intercollegiate basketball.

Student Life

Athletics

New Campus Center Opens

Campus Clubs

Campus Radio

Cheerleading & Dance Squad

College Hour

Community Service

Cultural Enrichment

Intramural Sports & Recreation Programs

Leadership

Student Activities Program
Student Life

Athletics

Foothill is a member of the Coast Conference of the California Community College Athletic Association and NorCal Football Conference. Our men’s intercollegiate teams compete in basketball, football, golf, soccer, tennis, swimming and water polo. Our women’s intercollegiate teams compete in basketball, water polo, soccer, tennis, volleyball, softball and swimming. For more information, call the Physical Education & Human Performance Division at (650) 949-7222.

New Campus Center Opens

In 2004, Foothill College closed the Campus Center to begin preparations for demolition of the existing structure and the construction of an entirely new center set to open this fall. The following services and programs are located in the new Campus Center.

For a complete listing of campus services and locations, review the campus map and directory on pages 256-257.

- Arcade & Recreation Area (Room 2149)
- ASFC Paint Room Graphics (Room 2017)
- ASFC Smart Shop/OwlCard (Room 2016)
- Associated Students of Foothill College (ASFC) Student Government (Room 2011)
- Bookstore (Room 2301)
- Dean of Student Affairs & Activities (Room 2002)
- Dining Room (Room 2201)
- District Police (Room 2103)
- Health Services (Room 2126)
- Intramural Recreation Program (Room 2149)
- Middle College Program (Room 2152)
- Psychological Services (Room 2120)
- The Sentinel Newspaper (Room 2012)
- Service Learning Volunteer Center (Room 2014)
- Student Accounts (Room 2005)
- Student Activities Office (Room 2009)
Campus Clubs

Campus clubs and organizations cater to a variety of student interests, including academic, athletic, cultural, social, political, religious, special interest and service groups.

We encourage student participation in extracurricular organizations and authorize clubs to develop from sufficient student interest. Each club must have a faculty or staff advisor. For more information, call the Student Activities Office at (650) 949-7282.

Campus Radio

Foothill owns and operates KFJC-FM 89.7, a 250-watt educational radio station. If you are interested in technical operation or administration, and programming of educational and entertainment features, call the Fine Arts & Communication Division Office at (650) 949-7262.

Cheerleading & Dance Squad

Foothill's Cheerleading & Dance Squad promotes college spirit throughout the year and allows participants to earn limited academic credit. Squad members serve as ambassadors of goodwill, school spirit, scholarship and leadership. For more information, call the Student Activities Office at (650) 949-7282.

College Hour

College Hour spotlights student activities—speakers, workshops, cultural programs, volunteer fairs, Club Day, Career Fair, Health Fair and University Transfer Day, entertainment, music and political forums—Wednesdays from noon to 1 p.m. Most classes are not scheduled during this hour so you can participate. For more information, call the Student Activities Office at (650) 949-7282.

Community Service

The Community Service Learning Program links Foothill students with non-profit community organizations in San Mateo and Santa Clara counties. Attend the on-campus Volunteer Fair, held in fall and spring, to learn more about opportunities to benefit youth, seniors, the environment, the homeless and many other worthy causes. For more information, call the Volunteer Center at (650) 949-7634.

Cultural Enrichment

The Student Activities Office works with the Associated Students of Foothill College (ASFC), faculty, staff, academic divisions and community organizations to present lectures, seminars and forums highlighting art, music, drama, politics, athletics, journalism and current issues. The staff also helps students, campus clubs and other organizations plan and coordinate events.

Black History Month, Women's History Month, Asian Pacific Islander Month, Jewish Heritage Month, Latino Heritage Month and Gay & Lesbian Heritage Month are just a few of the popular events that have earned campus and community recognition. For more information, call the Student Activities Office at (650) 949-7282.

Intramural Sports & Recreation Programs

Foothill's Intramural Program includes a range of sports leagues and inter-division competitions, College Bowl, recreation tournaments, fun runs and video-arcade tournaments. For more information, call the Intramural Office at (650) 949-7076.
Leadership

Student government provides our student body the opportunity to self-govern and participate with faculty, staff and administration. You can participate and gain valuable training and experience in the following areas:

- Administration
- Advocacy
- Broadcast communication
- Budget development
- Decision making
- Event coordination
- Goals and objectives
- Governance
- Group dynamics
- Leadership theory and styles
- Marketing

- Organizational development
- Parliamentary procedure
- Planning
- Policy development and implementation
- Problem solving and conflict resolution
- Speech communication
- Student rights and responsibilities
- Team building
- Time management

You can also apply to be a campus ambassador to help with events, hospitality, campus tours and outreach activities.

Practical leadership experience is also available through the Associated Students of Foothill College (ASFC) Campus Council and campus-governance committees. Elections are held during Spring Quarter. For more information, call the ASFC Office at (650) 949-7281.

Student Activities Program

Foothill's Student Activities Program offers opportunities to develop and enhance leadership skills, prepare for civic responsibility, explore diverse cultures, and help build a strong sense of college community. For more information, call (650) 949-7282 or visit Room 2009.
“If I hadn’t had a community college in my backyard, there is no way I would have gone to college. This isn’t just my story; it’s true for thousands of Silicon Valley residents. Community colleges like Foothill provided me and annually more than one million Californians with solid academics, and enabled us to round out our college experience by pursuing leadership activities, athletics, performing arts and many other programs.”


Student Services & Programs

Student Development Services
  Counseling

Admission & Placement Testing Services
  Campus Support Centers

Personal Support Services
  Special Assistance Services

Special Studies & Programs
Student Services & Programs

Student Development Services

Matriculation

Matriculation is a state-mandated agreement between you and Foothill College to help you reach your educational destination.

Our responsibility is to provide:

- An admission process.
- Orientation to college programs, services and procedures.
- Pre-enrollment placement testing and counseling.
- Advice and counseling for course selection.
- A suitable curriculum or program of courses.
- Continuous follow up of your progress.
- Referrals to support services.
- A program of institutional research and evaluation.

Your responsibility is to:

- Express an educational intent at entrance.
- Declare a specific educational objective within a reasonable period of enrollment.
- Be diligent about class attendance and completing assigned coursework.
- Strive to complete courses and progress toward an educational goal according to Foothill and California standards.

Orientation

The CNSL 50: Introduction to College Course

If you are a new student, new transfer or former student, you must enroll in the CNSL 50: Introduction to College course. Counseling staff will provide basic information about Foothill services and programs, and requirements for associate and bachelor's degrees, general education and specific majors. Orientation topics may also include time-management techniques, study skills, selecting a major, college success factors, and general education and university transfer requirements.

Placement test scores are used in the CNSL 50 course as an advisory tool and to help you develop an educational plan for your skill levels. The course is offered each quarter and during Summer Session. See the Schedule of Classes CNSL 50 listing. For more information, call (650) 949-7296.

Counseling

Foothill counselors help students with class selection, registration procedures and personal issues. They use skills, techniques, interventions, logic and intuition to help you make decisions and set goals leading to successful college and life experiences. Counselors can help you:

- Make appropriate, successful educational decisions.
- Set realistic career goals.
- Adjust to changing roles in society.
- Resolve personal concerns that may interfere with your ability to succeed.

For a counseling appointment on the Main Campus, call (650) 949-7423. For an appointment on the Middlefield Campus, call (650) 949-6959.

Career/Transfer Center

The Career/Transfer Center offers career and transfer resources, workshops and advice. The career coordinator provides information on job-hunting, resume writing, interview techniques, and career exploration. If you are interested in transferring to a four-year college, the transfer coordinator can help with transfer information, completing applications and essays, and choosing the best college.

The Career/Transfer Center offers many services, including a resource of library of books, publications and videos, current college catalogs, EUREKA (computerized career-guidance software), job binders, transfer newsletter, and Internet access for career/transfer-related research.

Throughout the year, the center hosts representatives from the University of California and California State University campuses, and numerous private colleges and universities. These representatives meet one to one with students who plan to transfer. You must sign up in advance to meet with a representative. In Fall Quarter, college representatives visit the campus for Transfer Day to meet with students. In Spring Quarter, the center presents the Career & Job Fair at which more than 50 recruiters attend, ready to hire students for full- and part-time jobs and internships.

Each quarter, the Career/Transfer Center compiles a comprehensive calendar of workshops, events and campus tours. Transfer workshops include transfer admission agreements, essay writing for college applications, choosing a college, UC applications, and preparing to
transfer to a private university. For more information, call (650) 949-7235. Career workshops include resume writing basics, resume writing critique, interviewing tips, choosing a college major, job search strategies, internships and salary negotiation. For more information, call (650) 949-7229.

To pick up a copy of the calendar, visit the Career/Transfer Center in Room 8329 or access www.foothill.edu/transfer and www.foothill.edu/career.

Admission & Placement Testing Services

Student Classifications

To understand Foothill admission and placement testing procedures, you need to know your student classification:

- **Continuing Student:** You were enrolled at Foothill last quarter.
- **Former Student:** You've attended Foothill, but were not enrolled during the previous quarter (Summer Session does not apply).
- **Freshman:** You've completed fewer than 45 units of college credit.
- **Full-Time Student:** You're enrolled in 12 or more units this quarter. Or you're enrolled in 6 units during Summer Session.
- **International Student:** You are from a foreign country, and have applied and been accepted to Foothill.
- **New Student:** You've never enrolled at any college.
- **New Transfer Student:** You have attended a college other than Foothill.
- **Non-Resident Student:** You have not met California residency requirements and must pay non-resident tuition.
- **Sophomore:** You've completed 45 or more units of college credit and haven't received a degree.

Placement Tests

Testing is required for students enrolling in CHEM 1A, 25 and 30A; ENGL 1A or 110; any ESL (except 134, 136, 137); and any mathematics course except MATH 230 or 250. Placement testing is offered on a computer. Testing is conducted by appointment. To schedule an appointment at the Main Campus, call (650) 949-7650. To schedule an appointment at the Middlefield Campus, call (650) 949-6957.

If you have successfully completed college-level math, chemistry and English courses, you may be placed by a counselor. Bring your transcript to an appointment with a counselor. To schedule an appointment, call (650) 949-7423.

If you have placement test scores from another college, you may fax them to the Testing Office at (650) 949-7375. You may enroll in the following courses without placement testing: ENGL 100, ESL 134, 136, 137 and MATH 230 and 250.

We also offer ability-to-benefit placement testing for students lacking a high school diploma and requesting federal financial aid. Call (650) 949-7286.

If you have a physical disability, call the Disability Resource Center, (650) 949-7017 (voice) or (650) 948-6025 (TDD) to make accommodation arrangements.

For more information on placement testing services, access www.foothill.edu/reg/testinginfo.html.

Campus Support Centers

CTIS Computer Centers

If you are enrolled in CTIS courses, you can use campus computer labs to complete course assignments. For more information, call (650) 949-7303, Main Campus; or (650) 949-6957, Middlefield Campus.

Language Arts Laboratory

Located in Room 6308, the Language Arts Lab offers a series of self-paced, individualized text-based and computerized courses on a credit/no-credit, non-transferable basis. The lab also has software to supplement ESL and foreign language instruction as well as a drop-in computer lab. For more information, call (650) 949-7452.

Library Services

The Hubert H. Semans Library has more than 90,000 books, periodicals, newspapers and a variety of multimedia resources. You can browse the best-seller reading collection or take a self-paced course to learn how to use a modern library in the computer age. Our online catalog helps you locate books by subject, title or author. Various computer databases make it easy to find articles in periodicals. You can also access the Internet and search various databases and Web sites. For more information, call (650) 949-7392, hours; (650) 949-7608, reference desk; (650) 949-7611, circulation.
Math, Physics & Chemistry (PSME) Center

If you need help with math, physics or chemistry, we encourage you to visit the Math, Physics & Chemistry (PSME) Center. The center is staffed by Foothill’s physical sciences, mathematics and engineering faculty and graduate students who can spend time assisting you in a supportive environment. The center also has numerous computers with the latest math, chemistry and physics software applications. The PSME Center is located in Room 4215, and is open Monday through Friday. For information, call (650) 949-7042.

Media Center

Located in Room 3600, the Media Center provides access to a variety of multimedia resources, including non-print materials, audiovisual workstations, and an open computing lab with Macintosh and Windows workstations. Currently enrolled students can use the lab for online research, papers or other class assignments. For hours or more information, call (650) 949-7445.

Foothill Observatory

Operated by the Peninsula Astronomical Society, the Foothill Observatory offers weekly public programs. These programs allow Foothill students and the public to view the day and evening sky with the observatory’s large astronomical telescope. The observatory is located in Building 4000. For hours of operation, call (650) 949-7334.

Tutorial Center

As a Foothill student, you have access to free tutoring in the Tutorial Center during day and evening hours. Visit the center in Room 3526 for assistance in a variety of subject areas. The Tutorial Center is home to drop-in tutoring, appointment tutoring and EOPS tutoring. Macintosh, PC, Internet and printer access is also available. For hours, directions, tutor schedules or more information, call (650) 949-7444 or access www.foothill.edu/tutor.

Writing Centers

English

Writing Center consultants are available to give you advice for writing assignments, job and college applications, and essay examinations. If you are enrolled in composition courses ENGL 110, 1A or 1B, you are strongly encouraged to use the center. The center accepts appointments and drop-ins. Visit Room 3612 or call (650) 949-7290.

English as a Second Language

ESL Writing Center consultants are available to give you advice for writing assignments and essay examinations. If you are enrolled in ESL 167, 25 and 26, you are encouraged to use the center. The center accepts appointments and drop-ins. Visit Room 6301 or call (650) 949-7923.

Personal Support Services

Health Services

The Health Services Office provides confidential health care services to students. Direct services include vaccinations, blood-pressure checks, emergency first aid, general-health counseling, smoking cessation counseling and acupressure massage. The office also sponsors speakers, presentations and conferences on health topics throughout the year. Services are available by appointment only.

Planned Parenthood reproductive health-care services, pregnancy testing, birth control, and STD- and HIV-testing are available on a sliding-scale fee basis. For more information, visit Room 2126 or call (650) 949-7243.

Psychological Services

Licensed mental health professionals, counselors and graduate interns offer short-term, confidential, no-fee personal counseling to you and your dependents. Services include individual, couple, family and group counseling. Services are provided in the Psychological Services Office. For psychological services appointments or information, visit Room 2120 or call (650) 949-7241.

Housing

Foothill has no dormitory facilities, but the Student Activities Office maintains a rental-listing resource binder. Foothill College does not supervise, recommend or assume responsibility for any housing facility. To list available housing, call (650) 949-7282. To review the resource binder, visit Room 2009.
Special Assistance Services

Disabled Student Programs & Services
Adaptive Learning Division

The Adaptive Learning Division offers courses and services on the campus and in the community for physically, communicatively, learning, developmentally and psychologically disabled adults. Consult the Schedule of Classes for sites and courses under Adaptive Learning.

The Disability Resource Center, located in Room 5801, provides disability access information, academic support, computer training, counseling, on-campus shuttle and other services. Extended-time placement testing is available to qualifying students.

For on-campus service and disability accommodation information, call (650) 949-7017 or 949-7332, voice; or (650) 949-6025, TDD for hearing-impaired. For deaf services, e-mail Brenda Davis at DavisBrenda@foothill.edu. For community-based program information, call (650) 949-7321.

To request this publication in alternative media such as electronic text, Braille or large print, contact Alternative Media Specialist Steven Sum, (650) 949-7673; SumSteven@foothill.edu.

Foothill offers an alternative path for the student with verified disability who requests academic modifications and does not want to participate in Disabled Student Program & Services. Contact Pat Hyland, Foothill College ADA/504 coordinator and dean of Faculty & Staff, in Room 1905, or call (650) 949-7090.

EOPS/CARE for Disadvantaged Students

Extended Opportunity Program & Services (EOPS) and Cooperative Agencies Resources for Education (CARE) assist disadvantaged and low-income students.

In addition to offering financial aid (detailed in the financial aid section of this catalog), EOPS and CARE offer counseling/advising, private tutoring, workshops, peer advising and transfer assistance. Staff and peer advisors provide useful insights because they have varied backgrounds and have experienced similar challenges.

The EOPS and CARE offices are located in the Student Development Center in Room 8202. For program-entry requirements, call (650) 949-7207.

Veterans Assistance & Services

The Admissions & Records Office and Counseling Division assist veterans in planning their educational goals while on the new Montgomery G.I. Bill, Veterans Educational Assistance Program or Selected Reserve Education Assistance Program. Foothill College accepts credit from institutions accredited by one of the six regional accrediting associations or follow the recommendations of the American Council on Education. Assistance for dependents who qualify for educational benefits is also available.

According to policies of the United States Veterans Administration, students receiving VA educational benefits (veterans, reservists, dependents) must maintain satisfactory progress. Students receiving VA benefits who fall below a 2.0 grade point average (GPA) will be placed on academic probation. If unsatisfactory progress continues for two consecutive quarters, students will have benefits suspended until GPA returns to satisfactory progress of 2.0 GPA or better.

For more information, call the Foothill Veterans Office at (650) 949-7001 or e-mail XuerebCarmela@foothill.edu.

Refunds & Grading Options for Students Called to Active Military Service

If you are called to military duty before completing your term of study, you may choose from the following options.

- **Refund**: Petition for an official withdrawal with a full refund of enrollment fees, student fees and non-resident tuition, if applicable. You'll receive a full refund for all books and materials purchased from the college bookstore.

- **Credit**: Petition for an official withdrawal with credit for enrollment fees, student fees and non-resident tuition, if applicable, toward future enrollment. You may later opt to receive a refund.

- **Grade of Incomplete**: Request a grade of I (Incomplete) from the instructor. Regulations require you to complete the course within one year, but you can request an extension in special circumstances.

Forms for these services are available in the Admissions & Records Office in Room 8201.

Special Studies & Programs

Professional & Work Force Development

Foothill College provides many services that directly benefit employees and employers in the Silicon Valley and greater Bay Area. Two of those services are customized on-site employee training for all employers from our contract education program, and specialized training and consulting for manufacturing businesses from the Center for Applied Competitive Technologies.

For more than two decades, Foothill College has provided high-quality training and business services to area employers. Our services are affordable, convenient and flexible.
Subject-matter experts in many fields serve as our instructors and consultants. They utilize a variety of teaching modalities to deliver high-quality training. We offer accelerated programs and distance learning as well as special services, including skills testing, counseling, career assessment, and consulting.

Contract education provides training and consulting in such areas as business skills, workplace communication, professional development, English as a second language, computer software applications, health and safety, and basic skills.

The Center for Applied Competitive Technologies provides training and consulting in such areas as root cause analysis, design for manufacturability, statistical process control, design of experiments, Six Sigma Deployment, ISO 9000: 2000, and technical skills.

Professional & Work Force Development
Center for Applied Competitive Technologies
Location: De Anza College, Staff House I, 21250 Stevens Creek Blvd., Cupertino CA 95014
(408) 864-8710, voice; (408) 864-8400, fax
E-mail: profwd@fhda.edu
Web Sites: SiliconValleyTraining.fhda.edu www.deanza.edu/cact

Campus Abroad Program
Study in France, England, Italy, Spain, Costa Rica, Ireland, West Africa or Vietnam and earn Foothill course credit through our Campus Abroad Program. You’ll enjoy a unique opportunity to immerse yourself in international culture. Field trips enhance coursework taught by Foothill-De Anza faculty at our campus sites abroad. Foreign language proficiency is not required, although we encourage you to investigate Foothill foreign-language courses.

Program fees include cultural and social activities; housing; medical, baggage and fee-refund insurance; meal plans; and transportation at some sites.

For more information, call the Campus Abroad Program Office at (650) 949-7614.

Cooperative Work Experience Program
Foothill offers credit for both general and occupational work experience education through our general Cooperative Work Experience (CWE) Program. The CWE Program is designed to help students enhance their academic and work-related skills. College credit may be earned by those students who work (full or part time) or for those who volunteer their services at approved agencies. Both Foothill and De Anza colleges have coordinated classroom instruction and work experience with a number of employers in business, industry, government and other professions. Most CWE students work up to 20 hours per week and full time during summer and school breaks. CWE Program participation information, employment opportunity and eligibility criteria are available at the CWE Office in Room 4144. For more information, call (650) 949-7232.

Evening College
If you work during the day or would prefer to take classes in the late afternoon, evening or weekend, Foothill’s Evening College offers hundreds of classes each quarter. The Evening College Office, located in the Student Success Center in Room 1901, is staffed Monday through Thursday, 3 to 8 p.m. For more information, visit or call (650) 949-7711.

Foothill Global Access
(Distance Learning Program)
Foothill Global Access (FGA) features online courses including lectures, discussion, assignments and tests delivered via the Internet with regular opportunities for electronic interaction with the instructor and other students. To enroll in online classes you must have access to a computer and an e-mail account.

For more Foothill Global Access information, visit www.foothill.edu or www.foothillglobalaccess.org, or call (650) 949-7446.
International Programs

Establishing an international presence is a Foothill priority. Since the college opened in 1958, we have hosted full-time students from other countries through our F-1 Visa Program. Program enrollments average approximately 800 students per quarter from more than 60 countries.

F-1 Visas are available to individuals who wish to enroll full time in the United States in programs leading to a certificate or degree. The program allows students to remain here until they have completed program and degree requirements. Prospective full-time students can find the International Student Application Form and instructions at www.international.fhda.edu. Applications are accepted for Fall, Winter and Spring quarters with application deadlines that are approximately three months before the start of classes. A TOEFL score of 500 or 173 on the computer-based test is required.

Foothill also hosts international students who enter the United States on other visa types. These students are generally a spouse or child of someone who is a student at another university or a worker in Silicon Valley and typically include J-1, H-1B, H-4, L-2 or F-2 visa types. Prospective students on these visa types should apply to the college as non-residents using the Foothill College Application for Admission at www.foothill.edu.

Housing for international students is available in a wide range of apartment complexes located near the campus or in homestays with local families. Additional information is provided to students upon acceptance.

Foothill also has five sister colleges around the world, and we regularly host students from these schools for one- to three-month language and culture programs.

For International Programs information, call (650) 949-7159. For F-1 Visa admission information, call (650) 949-7293 or access www.international.fhda.edu.

Internship Program

The Foothill-De Anza Community College District Internship Program offers a unique opportunity to gain valuable experience under the mentorship of a professional at a major Silicon Valley corporation or public agency. Internships enhance your university transfer application as well as your future employment prospects. As an intern, you’ll work 20 hours per week during the academic year and 40 hours per week during Summer Session.

Foothill College offers one-year paid internships for students in most majors such as psychology, business, engineering, computer science, graphic arts, physical and biological sciences, office administration, multimedia and many other majors. Internships are sponsored by job sites such as NASA-Ames Research Center, Apple Computer, LSI Logic, SETI, Computer History Museum, Educational Technology Services and many other corporations and public agencies. U.S. citizenship is required at some internship job sites.

To get started, attend the program’s on-campus information sessions, access internships.fhda.edu, e-mail internships@fhda.edu or call (650) 604-5560.
Middle College: The High-School Alternative

Foothill Middle College Program coordinators understand that not all students fit the mold of the traditional high-school student. This alternative program works with at-risk students to rekindle the enthusiasm for learning.

This program offers a serious learning environment where you must take control of your own learning, explore individual interests through more diversified course offerings, and complete high school graduation requirements. Middle College is based at the Main Campus. For an application or more information, call (650) 949-7168.

Middlefield Campus & Off-Campus Programs

Foothill has offered classes at community sites for more than two decades. Today, approximately 4,000 of our students enroll in classes at Foothill’s Middlefield Campus and more than 50 other convenient community locations.

The Middlefield Campus, located at the Cubberley Community Center in Palo Alto, is a full-service campus. It offers computer labs, an art lab, student lounge, gyms, weight room and classrooms. The Middlefield Campus is also home to the Foothill REACH, Paramedic, EMT, Pharmacy Technician and Travel Career programs. A variety of support services are available at the Middlefield Campus, including financial-aid assistance, open PC and Mac computer labs, OwlCard distribution and photo station, and placement testing services. We can process all admissions and registration transactions at either the Middlefield Campus or Main Campus.

For Middlefield Campus/Off-Campus programs information, call (650) 949-6950. For Middlefield Campus Student Services, call (650) 949-6958.

Occupational Training Institute

The FHDA Occupational Training Institute (OTI) provides job training and employment services at no cost for eligible residents of Santa Clara County. You may qualify if you are unemployed due to a company layoff, line or division closure, or you are economically disadvantaged. A variety of short-term training programs are available. OTI pays for college fees, books and required class materials for qualified students. Job preparation classes, placement assistance, retention and customized follow-up services are offered at no cost to candidates and employers. Additional support services include referrals to child care providers, transportation, financial aid and tutorial services. OTI is located in Room 5618. For more information, call (650) 949-7601.

OTI also serves as liaison for CalWORKs, offered to Santa Clara or San Mateo county residents who receive or have applied for Temporary Assistance for Needy Families (TANF). A variety of services are available to CalWORKs recipients enrolled in our program. For more information, call (650) 949-7465.

Project Veterans Program

Foothill College offers veterans and active duty personnel the unique opportunity to learn new skills, adapt their military skills to civilian life, and earn a college degree or career certificate. Project Veterans is dedicated to helping you identify and pursue comprehensive academic and career-training programs that meet your personal and professional goals. We help armed services personnel achieve their educational goals by addressing their specialized needs in a college setting. We encourage veterans interested in pursuing a vocational goal, college degree, apprenticeship program, or taking courses for personal enrichment to begin their educational experience through Foothill’s Project Veterans Program.

For more information, e-mail Project Veterans Coordinator Charlie McKellar at McKellarCharlie@foothill.edu or call (650) 949-6955.

Short Courses

Foothill and De Anza colleges offer approximately 150 non-credit, fee-based short courses each quarter. Nearly 12,000 students enroll in these courses each year.

The Short Courses Office is located at De Anza College in the Student and Community Services Building. In accordance with the Civic Center Act, the college is only designated as a place for community groups when there is no interference with the regular educational program. For more information, call (408) 864-8817.
“Financial aid has been essential for me to go to college. Without financial help, there is no way I could afford to go to college and get a good education, and later a well-paying job. That's important because I'm not only a student; I'm the first person in my family's history to attend college. One of the most important lessons I've learned is that a quality education brings you a quality income and better quality of life for your whole family. If you're like me, you'll discover that the most valuable benefit of receiving financial aid is that you'll have more time to devote to your academic responsibilities.”

—Ivonne Sorto,

Student, Foothill College

Financial Planning & College Costs

Student Fees

Instructional Materials Fees

Textbooks & Supplies

Estimated Annual Cost of Attending Foothill College

2007-2008 Cost of Attendance

Examples of Additional Costs

Refunds & Repayments

Financial Aid

Federal Aid

State Aid

Other Aid
Financial Planning & College Costs

Student Fees

If you’re a California resident, you’ll pay $13 per unit*. The non-resident tuition fee is $105 per unit, and the foreign student tuition fee is $116 per unit.

Foothill charges additional fees for Campus Center use, on-campus parking, lab courses, student-body activities (voluntary) and health services. International F-1 Visa students are required to purchase comprehensive health insurance for $370 each quarter.

All fees, listed in the quarterly Schedule of Classes publication, are subject to change. Tuition and fees may be refunded under certain circumstances; the specific refund policy is listed in the Schedule of Classes. Please direct questions about tuition and fees to the Admissions & Records Office.

*Fees are subject to change by California legislative action.

Instructional Materials Fees

In some courses, there will be an instructional materials fee. These fees, detailed in the Schedule of Classes, reflect the actual cost for materials, meaning the cost is usually lower than if you purchased the same items separately. Unless there’s an issue of health or safety, you can either pay the fees to the college or provide your own materials of equal quality. Your instructor will provide a list of required materials.

Textbooks & Supplies

You are responsible for purchasing textbooks and supplies, including course syllabi, bibliographies and other printed materials in excess of five pages. Some courses require that you purchase additional supplies. The Foothill Bookstore sells all course texts and other items.
Estimated Annual Cost of Attending Foothill College

It’s important for you to financially plan your education. The following cost estimates are calculated for a student attending Foothill College full time (enrolled in 15 units) for nine months.

2007-2008 Cost of Attendance

<table>
<thead>
<tr>
<th>California Resident (9 months)</th>
<th>Reside At Home</th>
<th>All Others</th>
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</thead>
<tbody>
<tr>
<td>Fees</td>
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<td>$669§</td>
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<td>Books / Supplies</td>
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<td><strong>Total</strong></td>
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<td><strong>$15,002</strong></td>
</tr>
</tbody>
</table>

§Based on institutional average 15 units x $13 per unit = $195 + $12 Health Fee + $16 Campus Center Use Fee x 3 Quarters = $669.

†Fees are subject to change.

Additional Fees
- Materials Fee: amount varies.
- Non-Resident Tuition Fee: $105 per unit per quarter.

Examples of Additional Costs
For students enrolled in allied health programs (primary care associate, dental hygiene, etc.), special fees, lab fees, tooling, and other related costs are added to the normal cost of attendance. Study Abroad Programs have additional costs that may be added to a student’s normal budget. Student loan fees are added. Expenses for rental or purchase of a personal computer, dependent care and disability-related costs may also be considered with documentation.

Refunds & Repayments

Refunds

The college maintains a refund policy for tuition, fees and book purchases at the bookstore. In most cases, a student can request a refund for classes dropped during the first two weeks of classes. The Admissions & Records Office and Bookstore can provide the most current policies for obtaining a refund.

Repayment

Students who withdraw from the college on or before 60 percent of the quarter is completed, may be required to repay Title IV funds. The funds are repaid to the Financial Aid Office and must be returned within 30 days after the institution’s determination that the student has withdrawn.

Financial Aid

Are You Eligible?

Financial aid eligibility is based on need—the difference between what you and your family can provide and actual college expenses.

Your financial need is determined by the information you and your family provide through the Free Application for Federal Student Aid (FAFSA) and the Foothill College Supplemental Application. If the application shows unmet need, we may be able to help. The total amount offered cannot exceed your documented financial need, and the monies must be used solely to meet educational costs at Foothill.

Eligibility requirements are generally established once you’ve shown, through a completed application, that you:

- Have applied for admission.
- Have enrolled in an academic program (objective) that requires two or more quarters to complete.
- Are a U.S. citizen or eligible non-citizen.
- Are enrolled or intend to enroll in a regular academic program at least half time.
- Maintain satisfactory progress.
- Demonstrate verifiable financial need. Some exceptions may apply. Consult the Financial Aid Office for details.
- Show academic major/goals and units of enrollment that can be applied to an educational plan.
- Have a high-school diploma, GED, or have passed an independently administered examination approved by the Department of Education.

If you are in default on a loan, or owe an overpayment on a grant or loan, you will not be eligible for financial aid until the situation is rectified.
Federal Aid

To be eligible for federal aid, you must:
- Be a U.S. citizen, permanent resident or other eligible non-citizen.
- Be enrolled in at least six units.
- Have a valid Social Security Number.
- Maintain good academic standing.
- Register with Selective Service if required.
- Demonstrate need.
- Have a high school diploma, GED, or pass an independently administered examination approved by the Department of Education.
- Not owe a refund on any grant or be in default on any student loan.

Academic Competitiveness Grant (ACG)

The federal Academic Competitiveness Grant will provide up to $750 for the first year of undergraduate study and up to $1,300 for the second year of undergraduate study to the full-time student who is a U.S. citizen eligible for a Federal Pell Grant, and who has successfully completed a rigorous high-school program, as determined by the state or local education agency and recognized by the U.S. Secretary of Education. The second-year student must also have maintained a cumulative grade point average of at least 3.0.

Federal Pell Grant

Federal Pell Grants are awarded to undergraduates based on financial need. They generally range from $400 to $4,050.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This federal program may be an option if you have exceptional financial need and would be unable to continue your education without a Pell Grant. The FSEOG Award is up to $600 per academic year at Foothill College.

Bureau of Indian Affairs (BIA)

BIA grants are available if a tribal agency can verify that you are at least one-fourth Native American, Eskimo or Aleut. To apply, contact the BIA area office at (916) 978-6000.

Federal Work Study (FWS)

If you have financial need and want to earn a part of your educational expenses through employment, Federal Work Study (FWS) may be an option. You can work up to 25 hours per week while classes are in session and 40 hours during school vacations. If you receive an FWS award, it is your responsibility to arrange an interview with the financial aid work study placement assistant.

Federal Perkins Loan

Borrow up to $2,100 cumulatively at a lower-division undergraduate level from this campus-based program with limited funding. You will begin repaying the loan nine months after you graduate or drop below half-time enrollment. During the repayment period (up to 10 years), you’ll be charged 5 percent interest on the unpaid balance.

Federal Subsidized & Unsubsidized Stafford Student Loan

Federal Stafford Loans are made by banks, credit unions, and savings and loan associations. As a first-year undergraduate, you can borrow up to $3,500 per year. As a second-year undergraduate, you can borrow up to $4,500 per year. An additional $4,000 of Unsubsidized Stafford may also be available annually for independent students. Federal Stafford Loan totals may not exceed $23,000 for dependent undergraduates and $46,000 for independent undergraduates (at least $23,000 must be unsubsidized). You begin repayment six months after you graduate or drop below half-time enrollment. During the repayment period, and upon receipt of funds for unsubsidized loans, you will be charged a variable interest rate capped at 8.25 percent on the unpaid balance.

Federal PLUS Loan for Parents

Federal PLUS Loans are made by banks, savings and loan associations, and credit unions. Parents of dependent undergraduate students may borrow up to the maximum of the amount determined to be unmet educational expenses. A determination of need must be made, but federal PLUS eligibility is based on unmet educational expenses. Interest charges begin upon receipt of the loan.

State Aid

Extended Opportunity Program & Services (EOPS)

This state-funded program has been designed to help colleges to recruit and retain those students affected by language, social and economic disadvantages who otherwise might not attend college. EOPS offers a staff of trained professionals eager to assist these students to achieve academic, career, and personal goals. Full-time enrollment (12 units) is required.
CAL Grants

To be eligible, in addition to federal aid requirements, a student must:

- be a U.S. resident or eligible non-citizen, and
- be a California resident, and
- not have a bachelor’s or professional degree (except extended Cal Grant A or B awards for a teaching program or other five-year program), and
- file a completed FAFSA and Cal Grant GPA Verification Form by the March 2, 2007 deadline.

**Cal Grant A:** Covers fees at the UCs, CSUs, and private institutions in California. This award may not be used to pay for community college fees. Funding for students who are enrolled at community colleges may be held in reserve for up to three years.

**Cal Grant B:** Is for high-potential students from disadvantaged or low-income families who otherwise would not be able to pursue a higher education. For most freshmen recipients, the $1,551 award helps with living expenses, books, supplies, and transportation, but not tuition and fees.

**Entitlement Award:** Every graduating high school senior who has a grade point average of at least 2.0, meets the Cal Grant financial and eligibility requirements and applies by March 2 within one year of graduation is guaranteed this award.

**Competitive Award:** Other students who meet the basic Cal Grant eligibility requirements and who have at least a 2.0 grade point average may compete for this award. Students who will enroll at a California community college in 2007, although strongly encouraged to apply by March 2, have a second deadline of September 2, 2007.

**Cal Grant Transfer Entitlement Award:** Cal Grant A and B Transfer Entitlement Awards are for the college student who graduated from a California high school after June 30, 2000, attended a California community college and transfer to a qualifying four-year college may be eligible for this award. Eligible students must have at least a 2.4 grade point average, meet the Cal Grant financial and eligibility requirements, and be under age 24 as of Dec. 31 of the award year.

**Cal Grant C:** Helps vocationally oriented students acquire marketable job skills within a short time. Full- or half-time training must be for at least four months and lead to a recognized occupational goal—diploma, associate degree, license qualification or certificate. Funding is available for up to two years, depending on the length of the program, as long as academic progress is acceptable. Awards for California community college students are limited to up to $576 in training related costs.

California Chafee Grant

This federal program, administered by the California Student Aid Commission, offers college and vocational school financial aid to youth aging out of a foster care program. For up to $5,000, the student must demonstrate financial need, meet basic eligibility requirements, and complete the FAFSA and the Application available at [www.csac.ca.gov](http://www.csac.ca.gov).

Board of Governors Enrollment Fee Waiver (BOGW)

While state law requires that students attending California community colleges pay an enrollment fee, the California Community Colleges offer the BOGW. This grant program waives enrollment fees for the academic year and Summer Session.

If you are a California resident, you qualify for a BOGW if any one of the following statements applies to your current status:

- You have qualified for financial aid and your need hasn’t been met;
- You or your family are receiving TANF/CalWORKS, Supplemental Security Income (SSI) or General Assistance/General Relief;
- You have received certification from the California Department of Veterans Affairs or the California National Guard Adjutant General that you are eligible for a dependent’s fee waiver; or
- You meet the following income standards:

<table>
<thead>
<tr>
<th>Number in Household (including yourself)</th>
<th>Total Family Income 2006 (adjusted gross income and/or untaxed income)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$14,700</td>
</tr>
<tr>
<td>2</td>
<td>$19,800</td>
</tr>
<tr>
<td>3</td>
<td>$24,900</td>
</tr>
<tr>
<td>4</td>
<td>$30,000</td>
</tr>
<tr>
<td></td>
<td>Add $5,100 for each additional dependent</td>
</tr>
</tbody>
</table>

- You have documentation that you are a recipient or the child of a recipient of the Congressional Medal of Honor.
- You have documentation that you are a surviving dependent of any individual killed in the Sept. 11, 2001 terrorist attack.
- You have documentation that you are a dependent of a deceased law enforcement/fire suppression personnel killed in the line of duty.
Applying for BOGW

- You are required to submit a completed 2007-2008 BOGW Application Form. Complete the form online at www.foothill.edu/aid or pick up the form in the Financial Aid Office.
- Only one application is required per year.
- Applications are accepted until the end of each quarter. It is not possible to process applications for prior quarters.
- Because the BOGW is not tied to any other financial aid program, it can be processed quickly and you can register immediately.
- You do not have to be enrolled in a specific number of courses to apply for the BOGW.

Other Aid

Emergency Loans

If you face an unexpected educational emergency, Foothill offers short-term loans up to $200. To qualify, you must be enrolled full time (12 units) and purchase a Foothill College OwlCard. These 30-day loans are interest-free. A late fee of $5 will be charged for overdue loans. Emergency loans take approximately two days to process and are administered through the Financial Aid Office. For information, call (650) 949-7245.

Employment

If you're interested in working to help defray the cost of attending college, consider a part-time, on-campus position. Most of these jobs pay from minimum wage up to $12/hour. Jobs that are not based on financial need are called “district” employment, and you must be enrolled in a minimum of six units to be eligible for these jobs. For information, call (650) 949-7245.

Scholarships

Thousands of dollars in campus and local scholarships are awarded annually to Foothill students. Scholarships, which vary in amount, are considered academic gifts and need not be repaid. They’re generally based on academic standing, financial need, potential progress in major fields of study, and college or community activities. Scholarships are computed as resources for students receiving financial assistance.

A listing of current scholarships is posted in the Financial Aid Office and at www.foothill.edu/aid.

Textbook Assistance

If you're eligible for Extended Opportunity Program & Services (EOPS), you may also qualify for the Textbook Assistance Program. For more information, call the EOPS Office at (650) 949-7207.

Financial Aid Answers

The goal of the Foothill Financial Aid Office is to make college accessible to all students. We feel no one should be denied an educational experience due to lack of funds. If you have questions or need more information about your financial aid options, please contact:

Financial Aid Office
Foothill College
12345 El Monte Road
Los Altos Hills, CA 94022-4599
(650) 949-7245
fhfinancialaidoffice@foothill.edu
Academic Divisions

Adaptive Learning & Disability Services
(650) 949-7332

Biological & Health Sciences
(650) 949-7249

Business & Social Sciences
(650) 949-7322

Computers, Technology & Information Systems
(650) 949-7236

Counseling & Student Services
(650) 949-7296

Fine Arts & Communication
(650) 949-7262

Instructional Services & Libraries
(650) 949-7390

Language Arts
(650) 949-7250

Physical Education/Human Performance
(650) 949-7742

Physical Sciences, Mathematics & Engineering
(650) 949-7259

Programs

Academic Divisions

Build Your Foundation:
General Education Coursework

Select a Major

Certificate Programs

Two-Year Career Programs

Curriculum Advisory Committees

Grade Requirements for
Specified Career Program Courses

Professional/Technical Programs
Leading to a Career Upon Completion

Apprenticeship Programs

Degrees & Certificates
Offered at Foothill College
Build Your Foundation: General Education Coursework

The primary objective of general education is to provide students with the depth and breadth required to interact successfully with others as knowledgeable members of our diverse society. A general education helps students clarify and present their personal views. It should also instill values and ideas that will enrich the personal lives of students and help them understand their own abilities, feelings and motives.

At Foothill College, the general education curriculum is designed to help students understand relationships among various disciplines and appreciate and evaluate past experiences that form our cultural and physical heritage. This academic program is designed to help individuals reach their full potential as global citizens and lifelong learners.

Foothill general education requirements are described under Associate Degrees/Graduation Requirements on page 59. The Intersegmental General Education Transfer Curriculum (IGETC) for transfer from a community college to either the California State University or University of California system is listed on page 60. CSU General Education requirements are listed on page 61.

Select a Major

Selecting a college major is an important step—one that establishes your career goals and determines where you should direct your academic efforts.

Majors within career and transfer programs are described within the following pages. The chart on pages 30–33 summarizes degrees and certificates available as of Fall Quarter 2005. Consult curriculum sheets located on the Web site and available in the Counseling Center, Room 8301, for the most current degree and certificate information. You can also consult with a Foothill counselor to develop a strategy for selecting your college major. To schedule a consultation, call (650) 949-7423.

Certificate Programs

Foothill offers the following types of certificate programs:
- Career Certificate
- Certificate of Achievement
- Certificate of Completion
- Certificate of Proficiency
- Skill Certificate
- Other division certificates

For information about certificates, contact the division office for policies regarding unit requirements, course sequences and major requirements. Foothill awards these certificates when you satisfactorily complete certain specialized programs requiring fewer than two years of full-time study. Some certificate programs comprise (1) a complete curriculum pattern or (2) major and related courses selected from an Associate in Arts or Associate in Science degree curriculum at the recommendation of an advisory committee.

The following state requirements apply to Certificate of Proficiency programs:
- A minimum of 27 units that follow a prescribed course pattern;
- A minimum GPA of 2.0 for these units;
- A maximum of 12 transfer quarter units from other institutions of higher education; and
- Proficiency in mathematics and English as evidenced by examinations or completion of college courses.
Certain Foothill College departments offer students Certificates of Completion or Achievement. General requirements include the prescribed coursework and a GPA of at least 2.0 in these courses. More information on specific requirements is available in the division office offering the certificate, or from your counselor.

Two-Year Career Programs

Associate in Arts & Associate in Science Degrees

Most professional and technical programs require two academic years of full-time enrollment and a minimum of 90 units of credit. All two-year programs lead to an Associate in Arts or Associate in Science degree. Although these programs are intended primarily to develop personal and technical competencies for employment, many four-year colleges accept the units earned in the two-year curriculum for certain lower-division requirements. We strongly recommend that you consult with a Foothill counselor to discuss degree and transfer requirements. To schedule a consultation, call (650) 949-7423.

Curriculum Advisory Committees

At Foothill, we strive to ensure that our career education curriculum meets the needs of business, industry and government. This is why we invite a number of occupational leaders to advise us on:

- new courses and course content;
- facilities and equipment;
- nature and extent of employment needs;
- how to evaluate the appropriateness of contents of existing courses; and
- how to evaluate student performance.

We constantly implement the recommendations of more than 30 occupational advisory committees. A campus advisory committee for vocational education also meets periodically to review and make recommendations for career education.

Grade Requirements for Specified Career Program Courses

A grade of C or better in certain career courses is required before you can enroll in the next program course:

- Biotechnology
- CTIS Division Majors
- Dental Assisting
- Dental Hygiene
- Diagnostic Medical Sonography (Ultrasound)
- Paramedic
- Pharmacy Technician
- Primary Care Associate
- Radiation Therapy
- Radiologic Technology
- Respiratory Therapy
- Veterinary Technology

For information on specific courses, please consult your counselor.

Professional/Technical Programs Leading to a Career Upon Completion

- Accounting
- Adaptive Fitness
- Bioinformatics
- Biotechnology
- Business Technology
- Child Development
- Computer Software Development
- Database Management
- Dental Assisting
- Dental Hygiene
- Diagnostic Medical Sonography (Ultrasound)
- Enterprise Networking
- Environmental Horticulture & Design
- Geographic Information Systems
- Graphics & Interactive Design
- Help Desk/Tech Support
- Informatics
- Interactive & Multimedia Technologies
- Internet Technology
- Music Technology
- Office Administration
- Paramedic
- Pharmacy Technician
- Photography & Digital Imaging
- Primary Care Associate
- Radiation Therapy
- Radio Broadcasting
- Radiologic Technology
- Real Estate
- Respiratory Therapy
- Small Business Administration
- Special Education
- Theatre Technology
- Veterinary Technology
- Video Arts
Apprenticeship Programs

- Electrician/Residential Electrician:
  San Jose, (408) 453-1022; San Francisco, (415) 587-2500
- Elevator Construction: San Francisco, (415) 285-2900
- Ironworking: Fresno, (559) 497-1295
- Plumbing/Pipefitting: Monterey, (831) 633-6312; Sacramento, (916) 383-1102; San Jose, (408) 453-6330
- Refrigeration/Heating & Air Conditioning:
  San Jose, (408) 453-6330; Sacramento, (916) 383-1102

Call the numbers listed for more information about apprenticeship programs. For more information about additional career programs, review the following table.

Degrees & Certificates Offered at Foothill College

Curriculum sheets describing general education and career training courses required for these programs are located on the Web site and in the Counseling Center in Room 8301. Curriculum sheets are also available online at www.foothill.edu. The quarterly Schedule of Classes lists each program alphabetically, the courses offered each quarter and the current contact phone number.

<table>
<thead>
<tr>
<th>Program</th>
<th>Completion Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>AA, CCC</td>
</tr>
<tr>
<td>Adaptive Fitness</td>
<td>AA, CCC</td>
</tr>
<tr>
<td>American Studies</td>
<td>AA</td>
</tr>
<tr>
<td>Anthropology</td>
<td>AA, CA</td>
</tr>
<tr>
<td>Apprenticeship Programs</td>
<td></td>
</tr>
<tr>
<td>Electrician/_sound &amp; Communication</td>
<td>CC</td>
</tr>
<tr>
<td>Elevator Construction</td>
<td>CC</td>
</tr>
<tr>
<td>Ironworking</td>
<td>CC</td>
</tr>
<tr>
<td>Plumbing/Pipefitting</td>
<td>CC</td>
</tr>
<tr>
<td>Refrigeration/Heating &amp; Air Conditioning</td>
<td>CC</td>
</tr>
<tr>
<td>Sheet Metal</td>
<td>CC</td>
</tr>
<tr>
<td>Art—General</td>
<td>AA, CP, CC</td>
</tr>
<tr>
<td>Art—History</td>
<td>AA, CC, CP</td>
</tr>
<tr>
<td>Art—Studio</td>
<td>AA, CP</td>
</tr>
<tr>
<td>Bioinformatics</td>
<td>AS, CCC</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>AS</td>
</tr>
<tr>
<td>Pre-Dentistry</td>
<td>AS</td>
</tr>
<tr>
<td>Pre-Medicine</td>
<td>AS</td>
</tr>
<tr>
<td>Pre-Pharmacy</td>
<td>AS</td>
</tr>
<tr>
<td>Pre-Veterinary</td>
<td>AS</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>AS, CCC</td>
</tr>
<tr>
<td>Business Administration</td>
<td>AA, CA, CC, SC</td>
</tr>
<tr>
<td>Business Management</td>
<td>CCC</td>
</tr>
</tbody>
</table>

Legend

<table>
<thead>
<tr>
<th>Program</th>
<th>Completion Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>Complete this program in approximately two years and earn the Associate in Arts Degree. See a counselor and refer to page 59 for requirements.</td>
</tr>
<tr>
<td>AS</td>
<td>Complete this program in approximately two years and earn the Associate in Science Degree. See a counselor and refer to page 59 for requirements.</td>
</tr>
<tr>
<td>CA</td>
<td>Complete this program and earn the Certificate of Achievement. See division office for requirements.</td>
</tr>
<tr>
<td>CC</td>
<td>Complete this program and earn the Certificate of Completion. See division office for requirements.</td>
</tr>
<tr>
<td>CCC</td>
<td>Complete this program and earn the Career Certificate. See division office for requirements.</td>
</tr>
<tr>
<td>CP</td>
<td>Complete this program and earn the Certificate of Proficiency. See division office for requirements.</td>
</tr>
<tr>
<td>SC</td>
<td>Complete this program and earn the Skill Certificate. See division office for requirements.</td>
</tr>
</tbody>
</table>

Review official curriculum sheets for career opportunities and course listings. Curriculum sheets are available in the division office, Counseling Center (Room 8301) and at www.foothill.edu.
# Degrees & Certificates Offered at Foothill College

<table>
<thead>
<tr>
<th>Program</th>
<th>Completion Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Commerce &amp; Electronic Business</td>
<td>CCC</td>
</tr>
<tr>
<td>Marketing</td>
<td>CCC</td>
</tr>
<tr>
<td>Small Business</td>
<td>CA</td>
</tr>
<tr>
<td>Business International Studies</td>
<td>AA, CC, CCC, SC</td>
</tr>
<tr>
<td>Business Technology: Office Administration</td>
<td>AS, CC</td>
</tr>
<tr>
<td>Accounting/Spreadsheets</td>
<td>SC</td>
</tr>
<tr>
<td>Business Communication</td>
<td>SC</td>
</tr>
<tr>
<td>Database/SQL</td>
<td>SC</td>
</tr>
<tr>
<td>Internet/Electronic Commerce</td>
<td>SC</td>
</tr>
<tr>
<td>Office Manager—General Office</td>
<td>CCC</td>
</tr>
<tr>
<td>Office Manager—Office Computing</td>
<td>CCC</td>
</tr>
<tr>
<td>Word Processing/Desktop Publishing</td>
<td>SC</td>
</tr>
<tr>
<td>Chemistry</td>
<td>AS</td>
</tr>
<tr>
<td>Child Development</td>
<td>AA</td>
</tr>
<tr>
<td>Infant/Toddler Development</td>
<td>CA</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>CA</td>
</tr>
<tr>
<td>School-Age Child Care</td>
<td>CA</td>
</tr>
<tr>
<td>Child Development Teacher</td>
<td>CP</td>
</tr>
<tr>
<td>Program Supervision &amp; Mentoring</td>
<td>CP</td>
</tr>
<tr>
<td>Chinese</td>
<td>AA, CC, CP</td>
</tr>
<tr>
<td>Communication Studies</td>
<td>AA, CA, CC, CP</td>
</tr>
<tr>
<td>Computer Science</td>
<td>AS, SC</td>
</tr>
<tr>
<td>Computer Software Development</td>
<td>AS, SC</td>
</tr>
<tr>
<td>Microsoft Certified Application Developer C#</td>
<td>SC</td>
</tr>
<tr>
<td>Object-Oriented Software Using C++</td>
<td>CCC</td>
</tr>
<tr>
<td>Object-Oriented Software Using Java</td>
<td>CCC</td>
</tr>
<tr>
<td>UNIX/Linux System Operations &amp; Administration</td>
<td>CCC</td>
</tr>
<tr>
<td>Creative Writing</td>
<td>AA, CA</td>
</tr>
<tr>
<td>Database Management</td>
<td>AS, CCC, SC</td>
</tr>
<tr>
<td>MCITP Database Developer</td>
<td>SC</td>
</tr>
<tr>
<td>Open-Source Database</td>
<td>SC</td>
</tr>
<tr>
<td>Oracle Database Administration</td>
<td>CCC, SC</td>
</tr>
<tr>
<td>Oracle Database Developer</td>
<td>CCC, SC</td>
</tr>
<tr>
<td>Dental Assisting</td>
<td>AS, CCC</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>AS</td>
</tr>
<tr>
<td>Diagnostic Medical Sonography</td>
<td>AS, CCC</td>
</tr>
</tbody>
</table>

**Legend**

- **AA** Complete this program in approximately two years and earn the Associate in Arts Degree. See a counselor and refer to page 59 for requirements.
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- **SC** Complete this program and earn the Skill Certificate. See division office for requirements.

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# Degrees & Certificates Offered at Foothill College

<table>
<thead>
<tr>
<th>Program</th>
<th>Completion Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td>AA</td>
</tr>
<tr>
<td>Engineering</td>
<td>AS</td>
</tr>
<tr>
<td>English</td>
<td>AA, CC</td>
</tr>
<tr>
<td>Enterprise Networking</td>
<td>AS, SC</td>
</tr>
<tr>
<td>MCDST Preparation</td>
<td>CA</td>
</tr>
<tr>
<td>Cisco CCNA Academy Certificate</td>
<td>CA</td>
</tr>
<tr>
<td>Cisco CCNP Academy Certificate</td>
<td>CA</td>
</tr>
<tr>
<td>MCSA Preparation Certificate</td>
<td>CA</td>
</tr>
<tr>
<td>MCSE Preparation Certificate</td>
<td>CA</td>
</tr>
<tr>
<td>Network Security</td>
<td>CA</td>
</tr>
<tr>
<td>Wireless Networking</td>
<td>CA</td>
</tr>
<tr>
<td>Environmental Horticulture &amp; Design</td>
<td>AS, CCC, SC</td>
</tr>
<tr>
<td>French</td>
<td>AA, CA, CC, CP</td>
</tr>
<tr>
<td>General Studies</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>AA</td>
</tr>
<tr>
<td>Science</td>
<td>AS</td>
</tr>
<tr>
<td>Social Science</td>
<td>AA</td>
</tr>
<tr>
<td>Geographic Information Systems (GIS)</td>
<td>CA, CCC</td>
</tr>
<tr>
<td>Geography</td>
<td>AA, CA, CCC</td>
</tr>
<tr>
<td>Geology</td>
<td>AS</td>
</tr>
<tr>
<td>German</td>
<td>CC</td>
</tr>
<tr>
<td>Graphics &amp; Interactive Design</td>
<td>AA, CCC, SC</td>
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<tr>
<td>Art Media</td>
<td>SC</td>
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<tr>
<td>Book Arts</td>
<td>SC</td>
</tr>
<tr>
<td>Illustration</td>
<td>SC</td>
</tr>
<tr>
<td>Motion Graphics</td>
<td>SC</td>
</tr>
<tr>
<td>Printmaking</td>
<td>SC</td>
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<tr>
<td>Printmaking Studio</td>
<td>SC</td>
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<tr>
<td>Software</td>
<td>SC</td>
</tr>
<tr>
<td>Video Design</td>
<td>SC</td>
</tr>
<tr>
<td>Web Design</td>
<td>SC</td>
</tr>
<tr>
<td>Help Desk/Tech Support</td>
<td>AS, CCC, SC</td>
</tr>
<tr>
<td>History</td>
<td>AA</td>
</tr>
<tr>
<td>Individual Studies: Transfer Preparation</td>
<td>AA, AS</td>
</tr>
<tr>
<td>Informatics</td>
<td>AS, CCC, SC</td>
</tr>
</tbody>
</table>

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Degrees & Certificates Offered at Foothill College

<table>
<thead>
<tr>
<th>Program</th>
<th>Completion Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interactive &amp; Multimedia Technologies</td>
<td>AS, CCC, SC</td>
</tr>
<tr>
<td>Internet Technology</td>
<td>AS, CCC, SC</td>
</tr>
<tr>
<td>AJAX</td>
<td>CCC</td>
</tr>
<tr>
<td>Dreamweaver</td>
<td>SC</td>
</tr>
<tr>
<td>Electronic Business</td>
<td>CCC, SC</td>
</tr>
<tr>
<td>Web-Based Multimedia</td>
<td>SC</td>
</tr>
<tr>
<td>Web Development</td>
<td>SC, CCC</td>
</tr>
<tr>
<td>Web Programming</td>
<td>CCC</td>
</tr>
<tr>
<td>Web Administration</td>
<td>CCC</td>
</tr>
<tr>
<td>Web Publishing</td>
<td>CCC, SC</td>
</tr>
<tr>
<td>Japanese</td>
<td>AA, CA, CP</td>
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<tr>
<td>Korean</td>
<td>CC</td>
</tr>
<tr>
<td>Law &amp; Society (Pre-Law)</td>
<td>AA</td>
</tr>
<tr>
<td>Leadership &amp; Community Service</td>
<td>CC</td>
</tr>
<tr>
<td>Linguistics</td>
<td>AA, CC</td>
</tr>
<tr>
<td>Mathematics</td>
<td>AS</td>
</tr>
<tr>
<td>Music/General</td>
<td>AA</td>
</tr>
<tr>
<td>Music Technology</td>
<td>AA, CCC, SC</td>
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<tr>
<td>Paramedic</td>
<td>AS, CCC</td>
</tr>
<tr>
<td>Personal Trainer</td>
<td>CCC</td>
</tr>
<tr>
<td>Pharmacy Technician</td>
<td>AS</td>
</tr>
<tr>
<td>Philosophy</td>
<td>AA</td>
</tr>
<tr>
<td>Photography &amp; Digital Imaging</td>
<td>AA, CC, CCC, SC</td>
</tr>
<tr>
<td>Physical Education/Human Performance</td>
<td>AA</td>
</tr>
<tr>
<td>Athletic Injury Care</td>
<td>AA</td>
</tr>
<tr>
<td>Physics</td>
<td>AS</td>
</tr>
<tr>
<td>Political Science</td>
<td>AA</td>
</tr>
<tr>
<td>Primary Care Associate</td>
<td>AS, CP</td>
</tr>
<tr>
<td>Psychology</td>
<td>AA</td>
</tr>
<tr>
<td>Radiation Therapy</td>
<td>AS</td>
</tr>
<tr>
<td>Radio Broadcasting</td>
<td>AA, CCC</td>
</tr>
<tr>
<td>Radiologic Technology</td>
<td>AS</td>
</tr>
<tr>
<td>Real Estate</td>
<td>AA, CCC</td>
</tr>
<tr>
<td>Respiratory Therapy</td>
<td>AS</td>
</tr>
<tr>
<td>Sociology</td>
<td>AA, CA, CP</td>
</tr>
<tr>
<td>Spanish</td>
<td>AA, CA, CC, CP</td>
</tr>
</tbody>
</table>

Legend

**AA** Complete this program in approximately two years and earn the Associate in Arts Degree. See a counselor and refer to page 59 for requirements.

**AS** Complete this program in approximately two years and earn the Associate in Science Degree. See a counselor and refer to page 59 for requirements.

**CA** Complete this program and earn the Certificate of Achievement. See division office for requirements.

**CC** Complete this program and earn the Certificate of Completion. See division office for requirements.

**CCC** Complete this program and earn the Career Certificate. See division office for requirements.

**CP** Complete this program and earn the Certificate of Proficiency. See division office for requirements.

**SC** Complete this program and earn the Skill Certificate. See division office for requirements.

Review official curriculum sheets for career opportunities and course listings. Curriculum sheets are available in the division office, Counseling Center (Room 8301) and at www.foothill.edu.
### Degrees & Certificates Offered at Foothill College

<table>
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<tr>
<th>Program</th>
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<tr>
<td>Special Education</td>
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<td>Video &amp; Computer Game Design</td>
<td>AS, CCC</td>
</tr>
<tr>
<td>Women's Studies</td>
<td>AA</td>
</tr>
</tbody>
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### Legend

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Review official curriculum sheets for career opportunities and course listings. Curriculum sheets are available in the division office, Counseling Center (Room 8301) and at www.foothill.edu.
“I grew up at Foothill College. I was an immigrant kid, straight out of high school and didn’t have a lot of confidence. It’s a beautiful campus and the instructors help create a supportive, nurturing environment. My classes honed my language skills and I found a sense of place and self-confidence in my abilities. Foothill’s faculty are first rate. They made a lasting impression on me. I still think about the English, economics and history lessons they taught. My teachers showed me that there is nothing too big that you cannot do.”

—De Tran, Editor, Viet Mercury Newspaper

Academic Policies

Revision of College Policies

Admission & Enrollment Policies

Academic Disqualification, Course Substitutions & Graduation Requirements

College & District Policies
Academic Policies

Revision of College Policies

Any policy adopted by the college administration shall supersede any ruling on the same subject that appears in this catalog or in other official publications once the revised regulation is posted on a campus bulletin board or printed in the Schedule of Classes.

Admission & Enrollment Policies

Academic Prerequisites, Credit & Placement

Many courses require that you complete prerequisites in order to enroll. These prerequisites are listed under each course description in this catalog and the Schedule of Classes.

All courses listed with a prerequisite have a registration block. If you have completed a course to fulfill the prerequisite requirement at another college, you must first provide a transcript and consult with a Foothill College counselor. To schedule a consultation, call (650) 949-7423.

Before registering, you must call the Matriculation Office at (650) 949-7512 to verify you have satisfied necessary prerequisites for CHEM 1A, 1B, 25, 30A; ENGL 1A, 110, ESL 26, 25, 146, 147, 156, 157, 166, 167; MATH 1A, 10, 49, 51, 101, 102, 103, 105 and 200 courses.

It is important that you call the Matriculation Office before you enroll. If you delay calling for prerequisite verification, there may not be sufficient time before registration to clear you for the class in which you want to enroll. The college has the authority to drop you from any course if you have not met the necessary prerequisites. For refund policies, contact the Admissions & Records Office in Room 8101.

If you submit written or performance evidence showing you have sufficient competence in the area of study due to previous training or experience, you may be able to enroll in a course without completing the listed prerequisites. You can only do this, however, if your counselor, instructor or division dean provides authorization.

Admission Guidelines

Foothill has an open-door admission policy for all high-school graduates and non-graduates who are 18 years of age or older. Students enrolled in the junior and senior year of high school may attend Foothill College with written parental and school permission. Forms for parental and school permission are available in the Admissions & Records Office (Room 8101), Middlefield Campus and at www.foothill.edu.

Special admission procedures such as additional testing, application forms and personal interviews are required for admission to a number of career programs. Some of these programs begin only in the Fall Quarter. You must complete all special admission requirements in the preceding Spring Quarter. Programs in this category include biotechnology, dental assisting, dental hygiene, primary care assisting, radiation science, diagnostic medical sonography (ultrasound), radiologic technology, respiratory therapy and veterinary technology.

Challenging Prerequisites

You may challenge prerequisites and corequisites if you can demonstrate that:

- You have the knowledge or ability to succeed in the course without the prerequisite or corequisite.
- You will be subject to undue delay in attaining your educational goal because the prerequisite or corequisite has not been made reasonably available.
- The prerequisite or corequisite is unlawfully discriminatory or is being applied in an unlawfully discriminatory manner.
- The prerequisite or corequisite has been established in an arbitrary manner.

To challenge a prerequisite, see your counselor and complete a Prerequisite Challenge Petition prior to the first day of the quarter. Advisories, when made, are listed as recommendations following prerequisites and are published in this catalog, Schedule of Classes and at www.foothill.edu. To schedule a counseling appointment, call (650) 949-7423.

Open Course Policy

It is the policy of the Foothill-De Anza Community College District that, unless specifically exempted by statute or regulation, every course, course section or class 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 regulations contained in California Administrative Code Title V commencing with Section 55200.
Enrolled Student Classifications

You are a matriculated student if you have filed an Application for Admission, enrolled at Foothill and have done one of the following:

- Submitted high school and other transcripts;
- Met with a Foothill College counselor, counseling associate or career advisor to examine educational opportunities;
- Announced an intention to study for a degree or certificate;
- Begun a series of introductory, general education or special courses; or
- Begun a series of special courses leading to a certificate or degree.

Exceptions to Admissions & Registration Policies

To request an exception to a published policy, you must file an exception petition. These forms are available in the Admissions & Records Office in Room 8101 and at the Middlefield Campus.

General Program Requirements

All beginning freshmen must enroll in the CNSL 50: Introduction to College course, or demonstrate proof that they have completed an equivalent course. If you are eligible for ENGL 1A, you should complete this course by the end of the third quarter of enrollment; you may take a speech course first. If you are eligible for ENGL 110 or 100, you should complete these courses during the first or second quarter.

You may receive up to 10 quarter units of credit for each score of 5, 4 or 3 on College Entrance Board Advanced Placement Tests. Your Foothill transcript will show units but will not indicate grades. The Evaluation Office, located in the Counseling Center, Room 8301, provides information on how the advanced placement scores are marked on transcripts and the equivalencies for the University of California and California State University.

You may receive up to nine quarter units for each of five general CLEP tests completed with a score of at least 500. Your Foothill transcript will show elective unit credit for each successful test score. These units may also be used to fulfill certain general education requirements.

If you want to transfer credit from an armed services school or other special institution, you may apply through a counselor. It's possible these credits will be accepted toward the Associate in Arts or Associate in Science degree once you have successfully completed a minimum of 15 units at Foothill.

General Registration Information

If you are a new or former student, you must submit the Application for Admission by the quarterly deadline published in the Schedule of Classes and at www.foothill.edu. We encourage you to complete the application, complete the placement testing process and submit necessary transcripts as early as possible.

Students planning to transfer to Foothill are advised to submit transcripts from high schools and colleges previously attended.

If you plan to receive veterans benefits, apply for financial aid or earn a degree or certificate, you must submit transcripts. Request previous institutions to send your transcripts directly to the Foothill College Admissions & Records Office, 12345 El Monte Road, Los Altos Hills, CA, 94022-4599.

To register for Foothill College classes, follow the telephone or online registration instructions published in the Schedule of Classes and on the college Web site at www.foothill.edu. The Schedule of Classes for the current academic year is posted online. Online information is subject to change. We encourage you to check the Web site frequently. For more information, call the Admissions & Records Office at (650) 949-7325.

Residency Requirements

Foothill College generally serves the communities of Palo Alto, Mountain View, Los Altos and Los Altos Hills, and our sister school, De Anza College, generally serves the cities of Cupertino and Sunnyvale. Both colleges, however, accept students from outside these cities.

If you are an out-of-state student, you are considered a non-resident until you have satisfied current California residency requirements. This rule applies to visa-holding, non-citizens eligible to establish residency. Non-resident tuition is required of all students in this category.

If you are an international student with an F-1 Visa, you may be eligible for admission only if you have completed the required special admission procedures. To request an International Student Application Packet, call the International Student Admissions Office, (650) 949-7293.

Unit Limitation

An average class load is 15 units per quarter. The maximum number of allowable units per quarter without a counselor’s approval is 20 units. If you intend to enroll in more than 20 units, you must obtain a counselor’s approval and submit a petition to the Academic Council. The maximum number of allowable units for Summer Session is 12 units. To complete
the petition process, schedule a consultation with a Foothill counselor by calling (650) 949-7423.

Academic Disqualification, Course Substitutions & Graduation Requirements

Make an appointment with your counselor to resolve problems such as disqualification and readmission, course substitutions, and exceptions to graduation requirements. To schedule an appointment, visit Counseling Appointments in the Counseling Center, Room 8301, or call (650) 949-7423.

Disqualification

You may be dismissed from Foothill College if you are on probation for three consecutive quarters. If you are disqualified, you will receive notice of dismissal by mail the following quarter. Dismissal will be reviewed by the Academic Council at your request. You may be readmitted after a one-quarter absence (excluding Summer Session). Consult with a Foothill counselor for readmission policies and procedures.

Academic In-Class Issues

If you have academic complaints, including treatment in a course or program, you should seek to resolve the problem by speaking with these people, in this order:
1. Course instructor;
2. Division dean (make an appointment through the division administrative assistant);
3. Division dean's supervisor;
4. Vice president, Student Development & Instruction; Room 1920, Administration Building; (650) 949-7228.

Academic Regulations

The Academic Council is responsible for academic regulation evaluation, enforcement, interpretation and exceptions. You can obtain petitions from the Evaluations Office in the Counseling Center, Room 8301, or call (650) 949-7231.

Academic Renewal

The academic renewal process permits students the opportunity to request the exclusion of entire quarters of coursework from the Foothill College grade point average up to a maximum of 45 units. Eligibility for academic renewal requires that you meet specific criteria. Consult your counselor for more information.

Add/Drop Date

You are responsible for initiating the drop process and for notifying both the instructor and Admissions & Records Office.

The last day to add classes without petitioning is the end of the second week of instruction. The last day to drop a class without a W grade is the end of the fourth week of the quarter for Fall, Winter and Spring quarters. Between the fifth and eighth weeks, all drops will receive a W grade. You cannot drop after the eighth week. For Summer Session class drop dates, consult the current Schedule of Classes.

Probation

There are two types of probation: academic and progress probation.
- Academic probation occurs when your grade point average is below 2.0.
- Progress probation occurs when after attempting 12 units, at least half of the units received are W (withdrawal), I (incomplete) or NP (no pass).

Correcting these situations will result in removal from probation. If you're placed on probation, you must consult a counselor for academic and procedural advice. You will be notified of probation by mail the following quarter.

Assignments & Examinations Regulations

As a Foothill student, you're expected to do your own work on examinations and course assignments. Each instructor will enforce certain regulations to ensure honesty. If you violate these regulations, you will be dropped from the class, and the circumstances may be entered in your permanent record. Further difficulty in this respect may result in disqualification from Foothill College. See page 43 of this catalog and/or obtain the Honor Code Booklet, available from the Student Affairs & Activities Office, Room 2002.

Attendance

Regular and punctual attendance is an integral part of the learning process. As a Foothill student, you are expected to attend all scheduled classes in which you are enrolled. An instructor has the authority to drop a student who violates written attendance policies. Instructors are not obligated to hold seats for students who are enrolled but do not attend the first class meeting.
Audit Request Procedures

A number of Foothill classes are available for audit. To be eligible, you must have already taken and completed the class at Foothill the number of times permitted, and received a grade of C or better. Audit requests must have the signatures of the instructor and registrar before you submit the request to the cashier. Auditors are admitted on a space-available basis.

The audit fee is $10 per unit. If you’re currently enrolled in 10 or more units, fees for the first three audit units are waived. Approved audit requests will be accepted beginning the second week of class.

Cancellation of Classes

Classes may be canceled when enrollments are lower than planned. Foothill College has the authority to change or cancel courses and programs as circumstances require.

Class Preparation/Progress

After prior notification, an instructor may drop students who demonstrate insufficient preparation/prerequisites. In addition, any instructor may drop students who persistently neglect class assignments or demonstrate inadequate progress.

Class Size & Frequency

Minimum class-size guidelines apply to all lecture, lecture/lab and laboratory classes at Foothill. While a minimum class size is generally required, special circumstances may necessitate continuing a class that does not meet these guidelines.

Exceptions are based on program needs such as second-quarter, third-quarter or second-year sequential courses; courses required for an identified major or career; combined courses meeting at the same hour with the same instructor; and one-of-a-kind offerings needed for graduation or transfer. Exceptions may also be based on the following:

- Limited classroom or laboratory facilities; or
- Statutory and state regulations mandating class size, independent study, special projects and cooperative education.

Other circumstances that warrant exception are made by the Educational Resources & Instruction Office.

Course Repetition

Unless exceptions are specifically indicated in course descriptions in this catalog, you cannot repeat a course that you completed with a grade of C or better. State law allows students to repeat a class only once to remove a substandard grade (D, F or NP). There is no limit on the number of times the student may enroll in courses designed to meet a legally mandated training requirement as a condition of continued paid or volunteer employment.

Some Foothill College programs require that the student complete a sequential program of study without a break in attendance. When a student is enrolled in one of these programs and has a break in enrollment he/she will be required to re-take coursework that has previously been completed with a passing grade.

Credit by Examination (Challenge)

As an enrolled Foothill student, you may be able to obtain credit by examination in subject matters or fields for which you are especially qualified through training or experience, but for which you have not received credit or advanced placement. Unit credits for courses successfully challenged will not be awarded until you have successfully completed 15 units of additional work at Foothill.

You can only challenge courses recommended by the division and approved by the dean. There are special limitations for challenging foreign language courses, courses that depend on laboratory or activity experiences, or courses in a sequence. You may not
challenge a course at a lower level than one you have successfully completed in the same department.

The examination may include written, oral or skill tests, or a combination of all three. It will determine whether you have essentially the same knowledge and skills as students who successfully complete the course. You are not permitted to obtain credit by examination unless you are enrolled in the course and the instructor has fully informed you about the requirements for successful completion. The grade you receive on the exam will be entered on your permanent record.

No course may be challenged after the class has met for two weeks, or during Summer Session. If you have failed a course, you cannot receive credit by examination in that course. Units of credit received through this procedure may not apply toward the minimum of 24 resident units required at Foothill for the Associate in Arts or Associate in Science degrees. A maximum of 20 units of credit may be earned by examination.

Although the University of California and California State University systems accept, within certain limitations, appropriate credits obtained by examination, Foothill College cannot guarantee that other institutions will do so.

You can obtain petitions for credit from your counselor during the first week of classes. The examination will normally be completed by the end of the second week. Units earned under credit by examination will be identified on your transcript.

Transfer Credit from Another Institution

Foothill 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 Foothill College Admissions & Records Office. To be official, transcripts must be sent from college to college or hand-delivered in a sealed, unopened college envelope.

**Foreign Colleges:** Students who want to use coursework completed at foreign institution must have their transcripts evaluated by a foreign evaluation service. Students should meet with their counselors to petition to use any of this coursework toward the associate degree. Coursework from a foreign institution cannot be used for certification to a four-year institution. Students should contact the school to which they want to transfer to determine if any credit will be awarded from the foreign institution.

**Non-Regionally Accredited Colleges:** Students may petition for individual courses taken at a non-regionally accredited college to be accepted for major requirements. The credit is non-transferable toward a bachelor's degree. Students must have official transcripts sent to the Foothill College Admissions & Records Office. To be official, transcripts must be sent from college to college or hand-delivered in a sealed, unopened college envelope.

Final Examinations

Foothill gives final examinations in all courses except physical education, CNSL 50, cooperative education and tutoring courses. We make special arrangements for self-paced courses and classes that only meet once a week. Final examinations normally will not be given in advance of the scheduled time.

You are responsible for taking all assigned final examinations. Failure to take the final examination results in an F grade. If you miss a final examination for a legitimate reason, communicate with your instructor immediately.

At Foothill, we strive to minimize student activities during the week before final examinations. However, classes and instruction continue as usual. During this period, instructors may assign coursework or have students complete part of the final examination.

Course Grading Categories

Foothill offers course grades in these five categories:

1. Courses in which all students are graded on a 4.0 scale of A, B, C, D, F.
2. Courses in which all students are graded on a Pass/No Pass (P/NP) basis.
3. You who enroll in a class as a Pass/No Pass option instead of a letter grade must submit a Pass/No Pass Card signed by the student within the first four weeks of the quarter. The form must be submitted to the Admissions Office.
   a. You may choose to apply to the associate degree no more than 16 units of P-graded courses from this category. Students transferring to a four-year school should consult with a counselor.
   b. Courses in your major must be taken for a letter grade.
4. Non-credit courses with course numbers ranging from 400–499. Grades earned in these courses shall not be included in the student’s degree-applicable grade point average.
5. Community services non-credit courses for which admission is charged.
6. In calculating the student’s degree-applicable grade point average, grades earned in non-degree-applicable courses shall not be included. Courses that are non-degree-applicable are noted in both the Schedule of Classes and Course Catalog.
Grading Scale

Grade definitions are as follows:

<table>
<thead>
<tr>
<th>Evaluative Symbols</th>
<th>Grade Definitions</th>
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</thead>
<tbody>
<tr>
<td>A+*</td>
<td>Excellent 4.0; see note below</td>
</tr>
<tr>
<td>A</td>
<td>Excellent 4.0</td>
</tr>
<tr>
<td>A–</td>
<td>Excellent 3.7</td>
</tr>
<tr>
<td>B+</td>
<td>Good 3.3</td>
</tr>
<tr>
<td>B</td>
<td>Good 3.0</td>
</tr>
<tr>
<td>B–</td>
<td>Good 2.7</td>
</tr>
<tr>
<td>C+</td>
<td>Satisfactory 2.3</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory 2.0</td>
</tr>
<tr>
<td>C–**</td>
<td>See note below</td>
</tr>
<tr>
<td>D+</td>
<td>Passing, less than satisfactory 1.3</td>
</tr>
<tr>
<td>D</td>
<td>Passing, less than satisfactory 1.0</td>
</tr>
<tr>
<td>D–</td>
<td>Passing, less than satisfactory 0.7</td>
</tr>
<tr>
<td>F</td>
<td>Failing 0.0</td>
</tr>
<tr>
<td>P</td>
<td>Pass (at least satisfactory; units awarded not counted in GPA).</td>
</tr>
<tr>
<td>NP</td>
<td>No Pass (less than satisfactory, or failing; units not counted in GPA). Not attaining course objectives.</td>
</tr>
</tbody>
</table>

*In the plus/minus grading system, the A+ grade is calculated the same as the A grade. **In the plus/minus grading system, the C– grade is not permitted under Title V law.

Incomplete

For a justifiable, approved reason (serious illness, emergency, etc.), you may ask your instructor for more time to complete coursework. After the end of the eighth week and before the end of the quarter, you must request that the instructor assign a grade of Incomplete (I). The instructor files an Incomplete Contract that explains the reason and precisely outlines the work due, procedure required, and due date for you to complete the work. You should sign and keep a copy of the contract.

We do not assign an incomplete because a student is slow or negligent in submitting required work. If you meet the course requirements within one calendar year, the I grade may be changed; otherwise it may be listed as F.

Withdraw from College

To withdraw from college after the eighth week, you must consult with a counselor and petition the Academic Council to obtain an approved dismissal. This is for your protection, since you may receive an F in all classes after the eighth week if you do not follow these guidelines. The petition must have the instructor’s approval signature for each class.

Transcripts

The Admissions & Records Office forwards transcripts at your written request. Transcripts to educational institutions will be sent directly to those institutions. Transcripts given directly to you are classified as unofficial.

Transcript costs and procedures for requesting transcripts are published at www.foothill.edu and in the printed Schedule of Classes.

Foothill reserves the right to withhold transcripts from students under certain circumstances, such as defaulting on a loan, outstanding balance due on an account or until all obligations to the college are cleared.

Transcript/Grade Changes

Section 76224 of the California State Education Code states, “The determination of the student’s grade by the instructor shall be final in the absence of mistake, fraud, bad faith or incompetency.” By law, instructors are the only people who can change grades.

If you believe corrections should be made within the above restriction, you should first talk to your instructor. Corrections must be initiated within two years after the grade was earned. If an error has been made, and a correction is necessary prior to the two-year period, you may request a review of the records at the Admissions & Records Office.

Grades received prior to 1983 may not be changed. Exceptions to this policy include a bona fide error in grading; and a course in which an unsatisfactory grade was given is repeated for a satisfactory grade.

High School Credits at Foothill

Although Foothill College cannot grant a high school diploma, many local high schools recommend that students 19 years of age or older complete high school requirements by taking college courses. If you choose to earn a high school diploma this way, you should obtain a statement from your high school principal or counselor indicating:

- The subjects necessary to complete graduation requirements, and the number of quarter credits in each;
- Suggestions for Foothill courses to satisfy these requirements;
- The total number of quarter credits required, including electives; and
- Acceptance of credit for courses taken at Foothill.
When you complete the college courses, request that the Foothill College registrar send a college transcript to your high school. The diploma will be issued in accordance with your school's procedures.

All credit courses taken at Foothill count as college credit, whether or not they count toward high school requirements.

Honors Institute

If you have strong academic motivation and ability, Foothill offers special class sections taught by our honors faculty. To qualify, you must satisfy a combination of prerequisites that include grade point average, English composition and instructor recommendation. In some cases, a minimum composite ACT or SAT score may be used. For details and the program application, access www.foothill.edu/hon.

The Honors Institute features special courses and co-curricular activities that prepare you for transfer to top colleges and universities; registration assistance to assure access to desired classes; discussions and projects to stimulate intellectual development; complimentary tickets to cultural events; small seminars; transcript notation of honors scholar; recognition at commencement; scholarships; and other benefits for students who plan to transfer to selective universities. Foothill participates in the UCLA TAP Program. For more information, access www.foothill.edu/hon or call (650) 949-7638.

Off-Campus Trips & Activities

Some programs require off-campus field trips and activities. Transportation is usually the responsibility of the individual student or a travel agency. The district is not liable for occurrences when participants are not under a faculty or staff member's direct, scheduled supervision.

Open-Entry/Open-Exit Classes

Foothill offers several open-entry/open-exit courses, allowing you to work at your own pace. You may generally enroll in these courses at any time, through the end of the seventh week of the quarter. Many of these courses are offered in the off-campus centers, ISC, Fine Arts and Language Arts laboratories and PSME Center. Lists of courses with unusual start times are available in these facilities and in the Schedule of Classes.

Independent/flexible study classes and cooperative work study classes are not open-entry/open-exit classes. You must enroll in these classes by the end of the second week of instruction.

Scholastic Honors

Foothill commends students who earn the associate degree, complete a minimum of 24 Foothill units and meet the following criteria by awarding:

- **Highest Honors**: 4.0 GPA in all Foothill College coursework.
- **High Honors**: at least 3.5 GPA in all Foothill College coursework.
- **Honors**: at least 3.3 GPA in all Foothill College coursework.

Additional scholastic honors are awarded to eligible students on the following basis:

- **Dean's List**: Awarded on a quarterly basis to full-time students completing 12 or more Foothill units in one quarter with at least a 3.5 GPA; and part-time students completing a minimum of 12 cumulative units at Foothill College with an overall and quarter Foothill GPA of at least 3.5.

- **President's Medal**: Awarded at the annual commencement ceremony to first-time degree recipients with a 4.0 GPA in all college coursework applicable toward the associate degree, including 60 resident units at Foothill College. To qualify for this award, the student must petition for graduation by May 1, and must attend the commencement ceremony in June.

Student Access to Education Records

The Family Education Rights & Privacy Act, also called FERPA (Section 438, Public Law 93380), requires educational institutions to provide student access to official education records directly related to the student. The act also says you have the right to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate. Your written consent is required before the college will release personal information from your records to other than a specified list of persons and agencies. These rights extend to present and former Foothill students.

Education records generally include documents related to admissions, enrollment in classes, grades and related academic information. These records are filed in the Admissions & Records Office.

- The registrar is the college's designated records officer.

- Personal education records will be made available for inspection and review during normal business hours to currently and formerly enrolled students, within 45 days following completion and filing of a written request with the records officer.

- The college may release certain types of directory information unless you notify the records officer that certain or all information cannot be released without personal consent. Directory information may include (1) student name and city of residence, (2) date and place...
of birth, (3) participation in recognized activities and sports, (4) dates of attendance, (5) degrees and awards received, and (6) the most recent previous educational agency or institution attended, and (7) height and weight of members of athletic teams, which may be released only by the appropriate athletic staff member or athletic director. Objection to the release of this information must be made in writing to the Admissions & Records Office prior to the first day of instruction of any quarter or Summer Session.

College & District Policies

Academic Honor Code

As a student at Foothill College, you join a community of scholars who are committed to excellence in the teaching and learning process.

We assume that students will pursue their studies with integrity and honesty; however, all students should know that incidents of academic dishonesty are taken very seriously.

When students are caught cheating or plagiarizing, a process is begun that may result in severe consequences.

It is vitally important to your academic success that you know what constitutes academic dishonesty at Foothill College.

What Is Academic Dishonesty?

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 representing the work of someone else as your own and submitting it for any purpose.

It is your responsibility to know what constitutes academic dishonesty. Interpretations of academic dishonesty may differ among individuals and groups. However, as a student at Foothill, you are expected to refrain from the behavior outlined herein. If you are unclear about a specific situation, speak to your instructor.

The following list exemplifies some of the activities defined as academic dishonesty:

Cheating
1. Copying, in part or in whole, from someone else's test;
2. Submitting work presented previously in another course, if contrary to the rules of either course;
3. Altering or interfering with grading;
4. Using or consulting, during an examination, any sources, consulting others, use of electronic equipment, including cell phones and PDAs, or use of materials not authorized by the instructor; or
5. Committing other acts that defraud or misrepresent.

Plagiarism
1. Incorporating the ideas, words, sentences, paragraphs or parts of another person's writings, without giving appropriate credit, and representing the product as your own;
2. Representing another's artistic or scholarly works such as musical compositions, computer programs, photographs, paintings, drawings or sculptures as your own;
3. Submitting a paper purchased from a research or term paper service, including the Internet; or
4. Undocumented Web source usage.

Other Specific Examples of Academic Dishonesty
1. Purposely allowing another student to copy from your paper during a test;
2. Giving your homework, term paper or other academic work to another student to plagiarize;
3. Having another person submit any work in your name;
4. Lying to an instructor or college official to improve your grade;
5. Altering a graded work after it has been returned, then submitting the work for re-grading;
6. Stealing tests;
7. Forging signatures on drop/add cards or other college documents; or
8. Collaboration without permission of instructor.

Consequences of Academic Dishonesty

Academic and/or administrative sanctions may be applied in cases of academic dishonesty.

Academic consequences may include:
1. Receive a failing grade on the test, paper or exam;
2. Have your course grade lowered;
3. Receive a grade of F in the course;

Administrative consequences may include:
1. Be placed on disciplinary probation;
2. Be placed on disciplinary suspension; or
3. Be expelled.
The Student Affairs & Activities Office maintains a record of students who have engaged in academic dishonesty. This information is used to identify and discipline students reported for academic dishonesty more than once. A copy of the Foothill College Student Conduct, Discipline & Due Process Procedure is printed in the handbook for each of these groups, and copies are available in the Student Affairs & Activities Office in Room 2002. We thank the San Jose State University Student Affairs Vice President’s Office for many of the statements in this section. The Foothill College Academic Honor Code was developed and approved by the college’s Academic Senate in 2004.

A person who is otherwise qualified may request accommodation related to his/her disability, provided that accommodation does not impose an undue hardship on the district.

To receive a copy of Foothill College disability access information and procedures for requesting accommodations, call Margo Dobbins, Foothill College Disability Resource Center (DRC) coordinator at (650) 949-7332, voice; (650) 948-6025, TDD. Disability access information is also available in the DRC, located in Room 5801; or in the Foothill College President’s Office in the Administration Building.

To appeal a DRC accommodation decision, consult Pat Hyland, Foothill College ADA/504 coordinator and dean of Faculty & Staff, in Room 1905, or call (650) 949-7090.

Non-Discrimination Policy

Foothill does not discriminate against any person in the provision of any program or service based on race, color, national or ethnic origin, age, gender, religion, sexual orientation, marital status or physical/mental disability.

Complaints of discrimination filed by an employee of the district against another employee or student, or a student against an employee of the district shall be referred and handled pursuant to the district Administrative Procedures: Investigation and Resolution of Complaints Regarding Harassment and Discrimination. Such complaints should be directed to Don Dorsey, dean of Student Affairs & Activities, located in Room 2002; or call (650) 949-7241.

Complaints of discrimination filed by a student against another student, or student against the criteria of a program, shall be referred and handled pursuant to the district Procedures to Resolve Student Complaints of Sexual Harassment and Discrimination. Such complaints should be directed to Don Dorsey, dean of Student Affairs & Activities, located in Room 2002; or call (650) 949-7241.

To report discrimination on the basis of disability, consult Pat Hyland, Foothill College ADA/504 coordinator and dean of Faculty & Staff, located in Room 1905; or call (650) 949-7090.

Limited English Skills Policy

Prospective students are advised that a lack of English language skills will not be a barrier to admission to, or participation in vocational education programs at Foothill College as long as other, if any, program admission standards are met.

This notice is a requirement of the Guidelines for Eliminating Discrimination & Denial of Services on the Basis of Race, Color, National Origin, Sex & Handicap (Federal Register; Vol. 44, No 56).
Reglamento sobre Limitaciones en el Idioma Inglés

Se les aconseja a posibles estudiantes que la carencia del idioma Inglés no será una barrera para la admisión, o participación en programas de educación vocacional en Foothill College, siempre y cuando todos los otros, si existieran, criterios de admisión del programa sean completados.

Esta nota es un requisito de la Guía para la Eliminación de la Discriminación y Rechazo de Servicios en Base a la Raza, Color, Nacionalidad de Origen, Sexo e Impedimento (Registro Federal; Vol. 44, No. 56).

Reglamento de la No-Descriminación

Foothill College no descrimina en contra de ninguna persona en la prohibición de algun programa o servicio basado en la raza, color, nacionalidad u origen ético, edad, sexo, religión, orientación sexual, estado civil, o impedimento físico o mental.

Sexual Harassment Protection Policy

Members of a college community—students, faculty, staff and visitors—must be able to study and work in an atmosphere of mutual respect and trust. It is the policy of the Foothill-De Anza Community College District to provide an educational, employment and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment, as defined and otherwise prohibited by federal and state law.

Sexual harassment may include, but is not limited to:

■ Conduct of a sexual nature that is explicitly or implicitly made a term or condition of an individual's employment or education;

■ A decision based on the submission to or rejection of a sexual advance; or

■ Verbal or physical conduct of a sexual nature that interferes with an individual’s performance or creates an intimidating work or educational environment.

Immediate action shall be taken against individuals determined to be in violation of this policy. Any individual who believes that he or she has been a victim of sexual harassment may file a complaint within one year of the date on which the complainant knew or should have known of the facts of the sexual harassment incident.

Complaints of sexual harassment filed by an employee of the district against another employee or student, or a student against an employee of the district, shall be referred and handled pursuant to the district’s Administrative Procedures: Investigation & Resolution of Complaints Regarding Harassment & Discrimination. Such complaints should be directed to Don Dorsey, dean of Student Affairs & Activities, Room 2002, (650) 949-7241.

Complaints of sexual harassment filed by a student against another student, or student against the criteria of a program, shall be referred and handled pursuant to the district's Procedures to Resolve Student Complaints of Sexual Harassment & Discrimination. Such complaints should be directed to Don Dorsey, dean of Student Affairs & Activities, Room 2002, (650) 949-7241.

Title IX Procedural Requirements

Title IX is a comprehensive federal law that prohibits discrimination on the basis of sex in any federally funded education program or activity. In addition to traditional educational institutions, Title IX also applies to any education or training program operated by a recipient of federal financial assistance. Many of these education programs became subject to Title IX regulations in 2000. Foothill College has responsibilities to ensure that students and employees comply with the non-discrimination mandate of Title IX and its procedural requirements. Foothill College has established a method for receiving and resolving sex-based discrimination complaints. At Foothill College, Pat Hyland, dean of Faculty & Staff, is the institution’s designated Title IX coordinator. For information, call (650) 949-7090 or visit Room 1905.

Mutual Respect Policy

Foothill College takes all steps necessary to provide a positive educational and employment environment that encourages equal educational opportunities. The college actively seeks to educate staff and students on the deleterious effects of expressions of hatred or contempt based on race, color, national or ethnic origin, age, gender, religion, sexual orientation, or physical or mental disability; and promotes equality and mutual respect among all groups and individuals. Standards of conduct for students and the applicable sanctions for violating the standards of student conduct are contained in the Academic Policies section in the Course Catalog, Schedule of Classes and Student Handbook. The handbook is available from the Student Activities Office, Room 2009. Decisions regarding discipline of employees will be made in accordance with applicable legal and contractual provisions and procedures, and may range from reprimand to dismissal.
Complaints & Grievance Process

Foothill College has an established procedure for grievances and complaints in order to provide a means for resolving alleged unfair or improper action by any member of the academic community. Procedures and forms are available on campus in the Student Affairs & Activities Office, located in Room 2002. A copy of the Foothill-De Anza Community College District (FHDA) Board Policy & Administrative Procedures is available for review from the FHDA District Human Resources Office as well as online at www.fhda.edu/about_us/board/policy. For more information, visit the Student Affairs & Activities Office or call (650) 949-7241.

Drug-Free Campus Policy

The unlawful possession, use or distribution of any illicit drug or alcohol by students on district property or at district activities or events is prohibited.

The use of drugs and alcohol may pose significant health risks. Health Services at Foothill College and the Health Office at De Anza College offer additional information on the risks associated with the use of drugs and alcohol. You can also receive referral information for drug or alcohol counseling, treatment and rehabilitation programs from both health offices. For more information, call (650) 949-7243.

Employees and students may be suspended or expelled for the unlawful possession, use or distribution of illicit drugs or alcohol. Appropriate disciplinary action may also include requiring the completion of a rehabilitation program. The standards of conduct for students and the applicable sanctions for violating the standards are published in the Foothill Student Handbook, De Anza Student Handbook and Board Policy #4500.

No Smoking Policy

To provide a safe learning and working environment for students and employees, smoking is prohibited in all indoor and outdoor campus locations, with the exception of designated parking lots. Smoking is prohibited in district vehicles.

“No Smoking” signs are conspicuously posted at building entrances and in employee lounges, restrooms, locker rooms, dressing areas, cafeterias, lunchrooms, and stadium and sports facilities. In addition, designated parking lot areas for smoking will be clearly marked.

This policy relies on the consideration and cooperation of smokers and non-smokers. It is the responsibility of all members of the district to observe and follow the guidelines. This policy shall be communicated to all employees annually and published in the colleges’ Schedule of Classes, handbooks, Web sites, and other appropriate locations. (Santa Clara County Ordinance No. 625.4; City of Cupertino Ordinance No. 1647; Labor Code 6404.5; Approved 1/8/96; Amended 8/16/99, 12/2/02, 6/20/05)

The Foothill College Health Services Office provides a variety of smoking cessation aids. To learn more about these services, visit the Health Center in Room 2126 or call (650) 949-7243.

Parking Citations & Traffic Violations

Parking tickets and traffic violations issued at Foothill College by district police are legal citations that cannot be canceled by the college administration. To make a payment or contest a parking citation, write to Parking Violations, P.O. Box 1113, San Jose, CA 95108-1113; or call (800) 818-1832. To make a payment or contest a citation for a traffic violation, write to the Palo Alto Superior Court, 270 Grant Avenue, Palo Alto, CA 94306-1911; or call (650) 324-0373.

Police Conduct

Direct concerns about an individual officer first to the officer and then to the chief of police, located in Room 2103; or call (650) 949-7313.

Student Grievance Procedures

So that you are fully aware of student rights and responsibilities, you should also review the Foothill College Student Conduct & Due Process Booklet. The administrative and board policies referred to in this section are also available online at www.fhda.edu. Printed versions of both booklets are available from Student Affairs & Activities, the dean of Faculty & Staff (Room 1905), and the Foothill-De Anza Community College District Chancellor's Office located on the Foothill College campus.

Purpose

The purpose of this procedure is to provide a prompt and equitable means of resolving student grievances. This procedure is for student grievances only. Faculty and staff with complaints regarding students should refer to Administrative Procedure 5510: Student Code of Conduct and Administrative Procedure 5520: Student Due Process & Discipline. The student grievance procedures shall be available to any student who reasonably believes a college decision or action has adversely affected his or her status, rights or privileges as a student. The procedures shall include grievances regarding:
Course grades, to the extent permitted by Education Code Section 76224(a), which provides: "When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetence, shall be final."

- Act or threat of intimidation or harassment. These procedures do not apply to sexual harassment or illegal discrimination. Sexual harassment or complaints on the basis of race, color, national or ethnic origin, age, gender, sexual orientation, marital status, or physical or mental disability should be directed to the dean of Student Affairs & Activities at Foothill College, the dean of Student Development & EOPS at De Anza College or the Foothill-De Anza Community College District Human Resources Office.

- Act or threat of physical aggression.

- Arbitrary action or imposition of sanctions without proper regard to academic due process specified in the college procedures, unrelated to disciplinary actions.

- The exercise of rights of free expression protected by state and federal constitutions and Education Code Section 76120.

This procedure does not apply to:

- Student disciplinary actions, which are covered under separate board policies and administrative procedures. (See Administrative Procedure 5520: Student Due Process & Discipline.)

- Police citations (i.e. “tickets”). Complaints about citations must be directed to the Santa Clara County Superior Court Parking Violations Office in the same way as any traffic violation.

- Sexual harassment. Complaints of sexual harassment should be directed to the dean of Student Affairs & Activities at Foothill College or the dean of Student Development & EOPS at De Anza College.

- Illegal discrimination. Complaints of discrimination on the basis of race, color, national or ethnic origin, age, gender, sexual orientation, marital status, or physical or mental disability filed against an employee of the district should be directed to the dean of Student Affairs & Activities at Foothill College or the dean of Student Development & EOPS at De Anza College.

- Residence determination. Student should contact the associate registrar at Foothill College or the director of Admissions & Records at De Anza College.

- Dismissal from college for academic reasons. Student should consult a Foothill counselor. If there are extenuating circumstances, the student may appeal the dismissal to the Academic Council after consulting a Foothill counselor.

Definitions

Grievant A student alleging that a college decision or action has adversely affected his or her status, rights or privileges as a student, or alleges that another student has violated the student's rights.

Party The student, or any persons claimed to have been responsible for the student's alleged grievance, together with their representatives. “Party” shall not include the grievance hearing committee or the college grievance officer.

President The college president or a designated representative of the college president.

Student A currently enrolled student, a person who has filed an application for admission to the college, or a former student. A grievance by an applicant shall be limited to a complaint regarding denial of admission.

Respondent Any person claimed by a grievant to be responsible for the alleged grievance.

Work Day A work day shall mean days during which the district is in session and regular classes are held, excluding Saturdays and Sundays. All time deadlines shall be measured by work day, unless otherwise specified as calendar days.

Informal Resolution of Grievances

Each student who has a grievance shall make a reasonable effort to resolve the matter on an informal basis prior to requesting a grievance hearing, and shall attempt to solve the problem with the person with whom the student has the grievance, that person's immediate supervisor, or the vice president who oversees that division.

The college president has appointed an employee who shall assist students in seeking resolution by informal means. This person shall be called the grievance officer.

Informal meetings and discussion between persons directly involved in a grievance are essential at the outset of a dispute and should be encouraged at all stages. An equitable solution should be sought before persons directly involved in the case have stated official or public positions that might tend to polarize the dispute and render a solution more difficult. At no time shall any of the persons directly or indirectly involved in the case use the fact of such informal discussion, the fact that a grievance has been filed, or the character of the informal discussion for the purpose of strengthening the case for or against persons directly involved in the dispute or for any purpose other than the settlement of the grievance.
Any student who believes he or she has a grievance shall file a Statement of Grievance Form with the grievance officer within 30 calendar days of the incident on which the grievance is based, or 30 calendar days after the student could have reasonably discovered the basis for the grievance, whichever is later. The Statement of Grievance Form must be filed whether or not the student has already initiated efforts at informal resolution, if the student wishes the grievance to become official. Within two work days following receipt of the Statement of Grievance Form, the grievance officer shall advise the student of his or her rights and responsibilities under these procedures, and assist the student, if necessary, in the final preparation of the Statement of Grievance Form.

If at the end of 10 work days following the student’s first meeting with the grievance officer, there is no informal resolution of the complaint which is satisfactory to the student, the student shall have the right to request a grievance hearing.

Steps in the Informal Process Involving College Employees

1. The student shall confer with the faculty member, administrator or classified staff person directly involved in the facts giving rise to the grievance.
2. If unresolved after Step 1, the student shall confer with the faculty member’s division dean, or the supervisor of the administrator or classified staff person.
3. If unresolved after Step 2, the student shall confer with the vice president of that dean’s or supervisor’s division.
4. Within the 30-calendar-day time limit as previously outlined, if the student does not feel that the matter can be resolved after completing Steps 1, 2 and 3, an official Statement of Grievance Form may be filed with the grievance officer. The grievance officer will advise the student of his/her rights and assist the student, if necessary, in the final preparation of the Statement of Grievance Form.
5. If after 10 work days from the first meeting with the grievance officer there is no informal resolution, the student may request a grievance hearing.

If the complaint involves a grievance against another student, grievant shall confer directly with the grievance officer, who will advise the grievant of his/her rights and assist the grievant in preparing the Statement of Grievance Form.

Formal Grievance Process

Grievance Hearing Committee

1. The college president or his/her designee shall at the beginning of each quarter, including any summer session, establish a standing panel of members of the college community, including faculty members and administrators, from which one or more grievance hearing committees may be appointed. The panel will be established with the advice and assistance of the Academic Senate, who shall submit names to the president or his/her designee for inclusion on the panel. A grievance hearing committee shall include three members from the panel described above. The administrator on the hearing panel shall serve as chair.

2. No person shall serve as a member of a grievance hearing committee if that person has been personally involved in any matter giving rise to the grievance, has made any statement on the matters at issue, or could otherwise not act in a neutral manner.

3. The grievance officer shall sit with the grievance hearing committee but shall not serve as a member nor vote. The grievance officer shall coordinate all scheduling of hearings, shall serve to assist all parties and the hearing committee to facilitate a full, fair and efficient resolution of the grievance, and shall avoid an adversary role.

Request for Grievance Hearing

Any request for a grievance hearing shall be filed on a Request for a Grievance Hearing Form in writing within 30 calendar days after discovery of the grievable action and after completing steps 1–3 of the informal process previously outlined.

1. Within 10 work days following receipt of the Request for Grievance Hearing Form, the grievance officer shall convene a grievance hearing committee as described above, and the grievance hearing committee shall meet in private and without the parties present to determine on the basis of the Statement of Grievance whether it presents sufficient grounds for a hearing.

2. The determination that the Statement of Grievance presents sufficient grounds for a hearing shall be made if the following are found to be true:
   1. The statement contains facts, which, if true, would constitute a grievance under these procedures;
   2. The grievant is a student as defined in these procedures, which include applicants and former students;
   3. The grievant is personally and directly affected by the alleged grievance;
   4. The grievance was filed in a timely manner;
   5. The grievance is not clearly frivolous, clearly without foundation, or clearly filed for purposes of harassment.
If the grievance does not meet each of the requirements, the hearing committee chair shall notify the student in writing of the rejection of the Request for a Grievance Hearing, together with the specific reasons for the rejection and the procedures for appeal. This notice will be provided within seven work days of the date the decision is made by the grievance hearing committee.

- If the Request for Grievance Hearing satisfies each of the requirements, the college grievance officer shall schedule a grievance hearing. The hearing will begin within 30 calendar days following the decision to grant a grievance hearing. All parties to the grievance shall be given not less than 10 work days notice of the date, time and place of the hearing.

Hearing Procedure

The grievance hearing committee chair is responsible for making sure that administrative procedures are followed and for maintaining decorum at the hearing.

- The members of the grievance hearing committee shall be provided with a copy of the grievance and any written response provided by the respondent before the hearing begins.
- Each party to the grievance may call witnesses and introduce oral and written testimony relevant to the issues of the matter.
- Formal rules of evidence shall not apply. Any relevant evidence shall be admitted.
- Unless the grievance hearing committee determines to proceed otherwise, each party to the grievance shall be permitted to make an opening statement. Thereafter, the grievant or grievants shall make the first presentation, followed by the respondent or respondents. The grievant(s) may present rebuttal evidence after the respondent(s)’ evidence. The burden shall be on the grievant or grievants to prove by substantial evidence that the facts alleged are true and that a grievance has been established as specified above.
- Each party to the grievance may represent himself or herself, and may also have the right to be represented by a person of his or her choice; except that a party shall not be represented by an attorney unless, in the judgment of the grievance hearing committee, complex legal issues are involved. If a party wishes to be represented by an attorney, a request must be presented not less than 10 work days prior to the date of the hearing. If one party is permitted to be represented by an attorney, any other party shall have the right to be represented by an attorney. The hearing committee may also request legal assistance; any legal advisor provided to the hearing committee may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.
- Hearings shall be closed and confidential unless all parties request that it be open to the public. Any such request must be made no less than five work days prior to the date of the hearing. In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the committee agree to the contrary.
- The hearing shall be recorded by the grievance officer either by tape recording or stenographic recording, and shall be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the grievance hearing committee chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. The tape recording shall remain in the custody of the district, either at the college or the district office, at all times, unless released to a professional transcribing service. Any party may request a copy of the tape recording.

- All testimony shall be taken under oath; the oath shall be administered by the grievance hearing committee chair. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify. A witness who refuses to be tape-recorded shall be considered to be unavailable.
- The grievance hearing committee shall prepare and send a decision to the grievance officer. The decision will be forwarded by the grievance officer to the grievant within 14 work days. The decision shall include specific factual findings regarding the grievance, and shall include specific conclusions regarding whether a grievance has been established as defined above. The decision shall also include a specific recommendation regarding the relief to be afforded the grievant, if any. The decision shall be based only on the record of the hearing, and not on matter outside of that record. The record consists of the original grievance, any written response, and the oral and written evidence produced at the hearing.

**Appeal & President’s Decision**

A student prejudiced by a decision of the grievance hearing committee shall be entitled to appeal that decision to the college president. The appeal shall be made in writing to the college president within 30 calendar days of receipt of the grievance hearing committee’s decision. The college president shall review the appeal and the grievance hearing committee’s findings and conclusions, and will render a decision. Within seven work days following the receipt of the request for appeal, the college president shall prepare and send a decision to the grievant. The decision of the college president shall be final.
Time Limits
Any times specified in these procedures may be shortened or
lengthened if there is mutual concurrence by all parties.

Misuse of Computer Information
& Resources Policy
This administrative procedure implements FHDA Board Policy
3250: Procedures Regarding Misuse of Computer Information.
Abuse of computing, networking or information
resources contained in or part of the district network may
result in the loss of computing privileges. Additionally,
abuse can be prosecuted under applicable statues. Users may
be held accountable for their conduct under any applicable
district or college policies, procedures, or collective
bargaining agreements. Complaints alleging abuse of the
district network will be directed to those responsible for
taking appropriate disciplinary action. Illegal reproduction
of material protected by U.S. Copyright Law is subject to
civil damages and criminal penalties, including fines and
imprisonment.
Examples of behaviors constituting abuse which violate
District Board Policy 3250 include, but are not limited to, the
following activities:

System Abuse
- Using a computer account that one is not authorized
to use.
- Obtaining a password for a computer account that one
is not authorized to have.
- Using the district network to gain unauthorized access
to any computer systems.
- Knowingly performing an act which will interfere
with the normal operation of computers, terminals,
peripherals or networks.
- Knowingly running or installing on any computer
system or network, or giving to another user, a program
intended to damage or to place excessive load on a
computer system or network. This includes but is not
limited to programs known as computer viruses, Trojan
horses and worms.
- Knowingly or carelessly allowing someone else to use
your account who engages in any misuse in violation of
District Board Policy 3250.
- Forging e-mail messages.
- Attempting to circumvent data-protection schemes or
uncover or exploit security loopholes.
- Masking the identity of an account or machine.
- Deliberately wasting computing resources.
- Downloading, displaying uploading or transmitting
obscenity or pornography, as legally defined.

- Attempting without district authorization to monitor or
tamper with another user’s electronic communications,
changing, or deleting another user’s files or software
without the explicit agreement of the owner, or any
activity which is illegal under California computer
crime laws.
- Personal use which is excessive or interferes with the
user’s or others’ performance of job duties, or otherwise
burdens the intended use of the district network.

Harassment
- Using the telephone, e-mail or voice mail to harass or
threaten others.
- Knowingly downloading, displaying or transmitting by
use of the district network, communications, pictures,
drawings or depictions that contain ethnic slurs,
racial epithets, or anything that may be construed as
harassment or disparagement of others based on their
race, national origin, gender, sexual orientation, age,
disability, or religious or political belief.
- Knowingly downloading, displaying or transmitting by
use of the district network sexually explicit images,
messages, pictures, or cartoons when done to harass or
for the purposes of harassment.
- Knowingly downloading, displaying or transmitting by
use of the district network sexually harassing images or
text in a public computer facility, or location that can
potentially be in view of other individuals.
- Posting on electronic bulletin boards material that
violates existing laws or the colleges’ codes of conduct.
- Using the district network to publish false or defamatory
information about another person.

Commercial Use
- Using the district network for any commercial activity
without written authorization from the district.
“Commercial activity” means for financial remuneration
or designed to lead to financial remuneration.

Copyright
- Violating terms of applicable software licensing
agreements or copyright laws.
- Publishing copyrighted material without the consent
of the owner on district Web sites in violation of
copyright laws.

Exceptions
Activities by technical staff, as authorized by appropriate
district or college officials, to take action for security,
enforcement, technical support, troubleshooting or
performance testing purposes will not be considered
abuse of the network.
Although personal use is not an intended use, the district recognizes that the network will be used for incidental personal activities and will take no disciplinary action provided that such use is within reason and provided that such usage is ordinarily on an employee's own time; is occasional; and does not interfere with or burden the district's operation. Likewise, the district will not purposefully monitor or punish reasonable use of the network for union business-related communication between employees and their unions. Approved 11/17/97; Reviewed by FHDA Board 8/16/99, 7/7/03.

**Code of Conduct for etudes™ Internet-Based Courses**

As a student at Foothill College, your conduct in the classroom and online (Internet classes) will be expected to conform to those acceptable standards for all students as described in this publication. Unacceptable behavior includes, but is not limited to the following:

- Use of threatening, harassing, sexually explicit language or discriminatory language or conduct that violates state and federal law and the Foothill-De Anza Community College District policy on sexual harassment or discrimination;

- Unauthorized posting or transmitting sexually explicit images or other content that is deemed by etudes™, the licensee, or any administrator, supervisor or instructor of a course published utilizing etudes™ or other online software to be offensive;

- Conduct that constitutes fraudulent behavior as enumerated in state and federal statutes;

- Disruptive behavior online or off-line;

- Vandalism, or any other violation of FHDA Community College District Board Policy. Particular attention should be given to college policy on academic dishonesty, which includes plagiarism or otherwise representing others' work as your own.

All Foothill College students are subject to the same consequences for violations of college policy. They include sanctions and consequences for infractions that are outlined in the student handbook, *Course Catalog* and at [www.foothill.edu](http://www.foothill.edu) under Student Rights & Responsibilities.

All Foothill College students are hereby notified that these documents, available online and in print, serve to alert them to their rights and responsibilities, and the college's obligations.

There are specific requirements of students using etude software, or other commercial software, and they are detailed in the *Terms of Service Agreement*. All students are advised to refer to this document and are informed that violations may result in suspension and/or expulsion from the class and/or college, other board sanctions and termination of your password, account or use of the software. The *Terms of Service Agreement* include the college's limitation of liability, indemnification, waivers, intellectual property rights, confidentiality and registration information.

Referenced sources include *Beyond the Classroom: Foothill College Student Handbook & Planner, Student Rights & Responsibilities; Foothill College Academic Honor Code; Foothill-De Anza Community College District Policies & Administrative Procedures on Sexual Harassment & Discrimination; and etudes systems™ Terms of Service Agreement* ([www.courseserve.com/termsofservice.html](http://www.courseserve.com/termsofservice.html)). March 1, 2000.

Students can obtain a copy of *Student Conduct & Due Process* from the Student Affairs & Activities Office, Room 2002; (650) 949-7241.

**Crime Awareness & Campus Security Summary Report**

In compliance with Section 201 Public Law 101-542 as amended by Public Law 102-26, Foothill College provides the following Crime Awareness & Campus Security Act Summary Report for students, faculty and staff:

<table>
<thead>
<tr>
<th>Crime / Year</th>
<th>2006</th>
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<th>2004</th>
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</tr>
<tr>
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</tr>
<tr>
<td>Burglary</td>
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<td>6</td>
<td>8</td>
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<tr>
<td>Homicide</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Vehicle Theft</td>
<td>1</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Rape</td>
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<tr>
<td>Robbery</td>
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<table>
<thead>
<tr>
<th>Arrests / Year</th>
<th>2006</th>
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<th>2004</th>
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<tr>
<td>Alcohol Violations</td>
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<td>0</td>
</tr>
<tr>
<td>Drug Violations</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
<td>5</td>
<td>8</td>
</tr>
</tbody>
</table>
Student Right-To-Know Summary Report

In compliance with the federal government, Foothill College provides the following summary of first-time, full-time, degree-seeking students entering Foothill College in Fall Quarter 2003:¹

Students completing A.A./A.S./Certificate: . . . . . . . 35 percent
Students who transferred out:² . . . . . . . . . . . . 21.8 percent
Total completers/transfers:³ . . . . . . . . . . . . . . 56.8 percent

¹ The cohort is made up of students entering college for the first time in the fall term, who in the fall term declared a goal of transfer, associate degree or certificate and completed one or more college-level credit courses in the fall term.
² The term transferred out is defined as the student who transferred to a University of California campus, or California State University campus, or another California community college campus.
³ Completers are students who within a degree-year period completed the requirements for an associate degree, certificate, or transferred out of the college, or were prepared to transfer which is defined as successfully completing 84 or more transferable units and achieving a grade point average equal to or greater than 2.0 (out of a possible 4.0).

Use of Photography

Foothill College, a non-profit California Community College, reserves the right to use photographs, motion pictures and electronic images of students and visitors, age 18 and older, taken on college property and at college-sponsored events, for marketing and promotional purposes. Objection to the use of an individual’s photograph may be made in writing to the Marketing Office, Room 5931.
“After high school, I didn’t know which four-year university I wanted to attend or what major I wanted to study. I enrolled at Foothill College, and little did I know that my decision was the turning point of my life.

“I worked hard, stayed focused and was rewarded with unimagined opportunities. I met my future wife at Foothill, transferred to and graduated from Santa Clara University’s prestigious business school, had a wonderful career in consulting, strategic planning, management and marketing. And, I retired at age 40!

“Foothill has a unique portfolio of caring and challenging teachers, great class sizes, and comprehensive financial aid and counseling resources. Reach out and take advantage of these incredible assets and you’ll be greeted by options and opportunities that you too couldn’t have imagined.”

—William Yee, B.S., transferred from Foothill College to Santa Clara University. His most recent—and last—job was at Yahoo!

Requirements

Associate in Arts or Associate in Science Degree Graduation Requirements

Course Numbering System

Certification of General Education for Transfer

Four-Year Institution Requirements

Preparation for Transfer to Four-Year Colleges & Universities

A.A./A.S. Degree General Education Requirements

Intersegmental General Education Transfer Curriculum (IGETC)

California State University General Education Breadth Requirements

Major & Certificate Requirements
Requirements

Associate in Arts or Associate in Science Degree Graduation Requirements

Requirements for the Associate in Arts or Associate in Science degrees are listed on page 59 and include completion of all the following:

- A minimum of 90 units in prescribed courses;
- A minimum of 24 units taken at Foothill College;
- A GPA of 2.0 or better in all college courses including Foothill courses;
- A major of at least 27 units in a curriculum approved by the Foothill College Curriculum Committee;
- The general education requirements are listed in the charts on pages 59–61. If you plan to transfer to a four-year college or university, you should also review the specific requirements of those institutions;
- English Proficiency: ENGL 1A or ESL 26;
- Math Proficiency: MATH 103 or 105; and
- The student may apply only one English or ESL course below transferable freshman composition toward the associate degree.

One course is required from Area I through Area VI. Two courses (a minimum of four units from two disciplines) are required in Area VII. Courses may only be used in one area.

General Education Reciprocity

The Foothill-De Anza Community College District has entered into a mutual General Education (GE) Reciprocity Agreement with other community colleges to accept the general education courses of these colleges “as completed.” In addition to Foothill, participating institutions include De Anza, Evergreen Valley, Gavilan, Mission, Ohlone, San Jose City and West Valley colleges. Other community colleges do not participate in the agreement at this time.

The reciprocity agreement allows students who obtain a certification of completion of associate degree GE requirements at one of the participating colleges to transfer both the GE coursework and graduation proficiencies to any of the other participating colleges. Additional GE coursework will not be required if the official certification is presented. Students will still be required to complete all courses or prerequisites needed for a major. The agreement also means that the other participating colleges will accept the Foothill GE pattern when presented with official certification.

Petition for Graduation

Upon completion of required coursework, you may request to receive the Associate in Arts or Associate in Science degree from Foothill College. You must complete a petition for graduation. The petition should be filed no later than the beginning of the quarter during which you plan to complete graduation requirements. Foothill confers degrees every quarter, and the annual commencement ceremony is presented in June. For more information, schedule a consultation with a counselor at (650) 949-7423.

Catalog Rights/Requirements for Graduation

The Course Catalog serves as an agreement between the student and the college to identify courses that the student must complete in order to qualify for a degree or certificate. The student has the right to select the course requirements for a degree or certificate from any catalog as long as continuous enrollment has been maintained.

Allied health programs reserve the right to change catalog rights by modifying program requirements based upon state and federal accreditation standards.
Continuous Enrollment

Continuous enrollment is important in deciding which catalog a student may select to determine degree or certificate requirements. A continuously enrolled student is defined as one who attended Foothill or De Anza colleges at least two quarters each academic year, excluding Summer Session. A single W grade in a term qualifies as an attended term.

Currency of Major/Certificate Requirements

In certain Foothill College programs, currency of course content is essential. The Foothill College Curriculum Committee reserves the right to determine an acceptable level of currency of any course in any major or certificate. This means that a course may only be used toward fulfilling a certificate or degree for a prescribed number of years. Students should check certificate and major requirements for courses that are noted as having currency levels.

Online Degrees

The Foothill Global Access (FGA) Program offers online educational opportunities and services comparable to those available to on-site students.

FGA offers students a variety of distance learning courses that meet the same high academic standards as traditional classes.

The program also offers eight associate degree programs entirely online, including anthropology, economics, e-commerce, general studies/social science, geography, history, psychology and Web programming as well as general education requirements. These degrees are fully transferable and can be completed online. A few courses, such as speech, English and math, may require occasional meetings or proctored exams. For more information, access www.foothillglobalaccess.org.

Discontinued Degrees

A discontinued degree is one that was once offered by Foothill College but which is no longer offered. To be considered for an associate degree in a discontinued program, the student who has maintained continuous enrollment may file to graduate from Foothill College within seven years of the time that a program is discontinued.

Course Numbering System

Most Foothill courses are baccalaureate in level and can be transferred to four-year institutions.

In general, courses at Foothill College are numbered using the following guidelines:

<table>
<thead>
<tr>
<th>Number</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–49</td>
<td>Transferable to the University of California.</td>
</tr>
<tr>
<td>1–99</td>
<td>Transferable to the California State University.</td>
</tr>
<tr>
<td>1–199</td>
<td>Foothill AA/AS degree-applicable.</td>
</tr>
<tr>
<td>200–299</td>
<td>Prerequisites for required courses that lead to the AA/AS degree.*</td>
</tr>
<tr>
<td>300–399</td>
<td>Workshops, review and other courses offered to meet special collegiate needs of a community nature.</td>
</tr>
<tr>
<td>400–499</td>
<td>Non-credit, non-graded courses in consumer education, senior education, adaptive learning or other areas that do not apply to the AA/AS degree.</td>
</tr>
</tbody>
</table>

All courses numbered 200 and above are non-degree applicable. Grades earned in these courses shall not be included in the student’s degree-applicable grade point average.

There are exceptions to this numbering system. Consult the course listings in this catalog to determine which courses between 1–199 are non-degree applicable. Students should consult a counselor to determine course transferability. A list of transferable courses may be viewed at www.assist.org.

*Basic Skills: Limitations & Waivers

Enrollment in basic skills courses is limited to no more than 45 quarter units at Foothill College. ESL and learning disabled students are exempt from this limitation. Waivers may be available for other students who show significant progress, but these waivers are only for a specified period of time or number of units.

Visit the Counseling Office for copies of the Foothill Associate Degree/Graduation Requirements; CSU GE/Breadth Requirements; and IGETC listings; or access them online at www.foothill.edu.

For help deciding which general education plan to follow, consult a Foothill counselor.

Certification of General Education for Transfer

Foothill College will certify completion of up to 58 units of the 72-unit general education requirement for graduation from the CSU (See chart on page 61). IGETC Certification for CSU or UC requires full certification of Areas 1 through 5. (See chart on page 60). You may request certification by completing the official certification form or transcript request form available from the Admissions & Records Office in Room 8101 or Evaluations Office in Room 8301.

You are encouraged to consult with a counselor for help in selecting courses. We encourage all students to check each quarter for new course requirements.
Four-Year Institution Requirements

Articulation Agreements

Articulation is the process of negotiating and approving Foothill courses with other institutions. Foothill has course-to-course and major-preparation articulation agreements with nearly every UC and CSU campus, and many four-year colleges and universities. This information is available to you through your counselor or via the Internet. To review online information, access these Web sites:

- www.foothill.edu
- www.assist.org
- Web site of the specific college of interest

Transfer Admission Agreements

If you complete a Transfer Admission Agreement (TAA), you'll be given first consideration for admission to selected colleges and universities. You must complete agreed-upon general education courses, as well as major courses, with a specified minimum grade point average. Work with a counselor to develop a TAA. The TAA must be prepared before transfer. The TAA ensures acceptance and smooth transfer to the chosen college or university. The Transfer Center, Room 8329, has additional information regarding deadlines for TAAs.

The following institutions offer Transfer Admission Agreements for Foothill students:
- Cornell University*
- CSU Monterey Bay
- CSU East Bay
- Menlo College
- Mills College
- National Hispanic University
- Notre Dame de Namur University
- SCU Business School
- San Francisco State University (CSU)
- San Jose State University (CSU)
- Santa Clara University
- UC Davis
- UC Los Angeles†
- UC Riverside
- UC San Diego
- UC Santa Barbara
- UC Santa Cruz
- University of San Francisco
- University of the Pacific

*Applies to School of Civil & Environmental Engineering.
†You must participate in the Foothill Honors Institute to qualify.

This list increases each year. Verify current TAA availability in the Transfer Center, Room 8329.

University of California Breadth General Education Requirements

The University of California (UC) has campuses at Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, San Francisco, Santa Barbara and Santa Cruz.

UC campuses have uniform basic eligibility requirements. Each campus is distinctive, however, and not all majors are offered at every campus. Each school and college at a specific UC campus has outlined major requirements that prepare you for the academic discipline.

Foothill's counselors and Career/Transfer Center staff can advise you regarding the courses acceptable for credit at UC campuses as well as those meeting the breadth requirements for specific UC colleges and schools. You can also review this information on the Internet at www.assist.org. The Foothill College Web page at www.foothill.edu includes the Transfer Course Agreement Listing for all Foothill courses transferable to all UC campuses. You should explore all undergraduate colleges, schools and majors to determine which campuses will best satisfy your educational needs. We encourage you to discuss the advantages of each major and campus with a counselor.

Preparation for Transfer to Four-Year Colleges & Universities

Each year, hundreds of Foothill College students transfer to a four-year college or university after completing lower-division major preparatory and general education requirements. The secret of our students' success is that they understand which transferable courses are required for:

- Admission to the college/university of their choice;
- Major preparation; and
- Completion of general education requirements.

Counselors are an excellent resource for transfer information. Understanding these requirements ensures that students can transfer in a timely manner in order to earn their bachelor's degree without delay.

These requirements often change annually; therefore, students should meet with a counselor every year. Many of the courses offered at Foothill College are similar to courses offered in the lower division, or first two years, at four-year colleges and universities. Because requirements often vary significantly from campus to campus, it is recommended that you decide on your major and transfer institution as soon as possible. In addition to offering counselors to help you with this decision, Foothill College offers Counseling (CNSL) and Career Life Planning (CRLP) courses to help you explore and evaluate options.
Transfer to the California State University

To be eligible for transfer, students must complete at least 90 transferable quarter units with a cumulative 2.0 grade point average in all transferable courses as well as satisfy minimum admission requirements.

Lower-Division Transfer

At some universities, students who were eligible for CSU admission when they graduated from high school may apply for transfer admission before completing 84 transferable units. Meeting with a counselor can help students decide on the best transfer plan. Occasionally, students elect to transfer at the lower-division level. Such students must have a minimum 2.0 grade point average, be in good standing at the last college or university attended, and meet the minimum admission requirements for first-time freshmen. For these students, high school deficiencies must be completed. SAT or ACT test scores are also required for these applicants.

Upper-Division Transfer

Students who have completed a minimum of 90 transferable units with a grade point average of 2.0 or better in all transferable courses may be eligible for transfer if they complete at least 45 quarter units with a grade of C or better in selected general education courses. These units must include:

- At least 12 quarter units to include written communication, oral communication and critical thinking; and
- At least one course from the approved list of mathematics courses.

Major Requirements

Students are encouraged to complete as many lower-division major preparatory requirements as possible prior to transfer. Many majors, especially in highly selective programs, have supplemental requirements that must be met prior to transfer. Consult with a counselor for additional information. These requirements may also be viewed at www.assist.org. Some oversubscribed programs may require supplemental courses or information for admission.

Transfer to the University of California

With thoughtful planning, transferring to the University of California need not be complicated. Students should be aware that both the major and general education requirements vary from campus to campus; therefore, it is advisable to meet with a counselor as early as possible to develop an effective educational plan. To be eligible to transfer as a junior, students must complete a minimum of 90 transferable quarter units with a minimum 2.4 transferable grade point average. The University of California generally does not permit lower-division transfers. Admission to most UC campuses is competitive; therefore, a grade point average higher than the minimum is necessary to be a viable applicant. Selection is based largely upon completion of the prescribed list of lower-division major requirements and explanation of career goals as outlined in the application essay. These requirements may be obtained from a counselor or by viewing the articulation agreements posted at www.assist.org. The Transfer Center in Room 8329 offers both application essay-writing workshops and transfer coaching.

Oversubscribed Programs

Impacted or oversubscribed programs vary from year to year; however, in recent years, the following majors have been highly selective:

- UC Berkeley: Admission to most majors is selective;
- UC Davis: Biological sciences, engineering, computer science, psychology;
- UC Irvine: Biological sciences, computer science, engineering;
- UCLA: Communication, economics, engineering, life sciences, motion picture;
- UC Riverside: Business administration, engineering;
- UC San Diego: Biological sciences, engineering;
- UC Santa Barbara: Biological sciences, computer science, engineering; and
- UC Santa Cruz: Art, environmental studies, psychology.
Minimum Admission Requirements

To qualify for admission to the University of California, students must meet one of the three sets of criteria that follow:

1. Students who were eligible for admission to the University of California when they graduated from high school are eligible to apply for transfer if they have maintained a cumulative grade point average of at least 2.0 in all UC-transferable courses. Consult a counselor for information regarding the specific subject, scholarship and examination requirements.

2. Students who met the scholarship requirement upon graduation from high school, but who did not satisfy the subject requirement must take transferable college courses in the missing subjects to be eligible for transfer. Students must earn a grade of C or better in each of these courses as well as maintain a cumulative grade point average of at least 2.0 in all UC-transferable work.

   Students who met the scholarship requirement but who did not meet the examination requirement must complete a minimum of 18 quarter units of transferable work with an overall grade point average of 2.0 in all transferable college work completed.

3. Students who were not eligible for admission to the University of California upon high school graduation must:
   
   A. Complete a minimum of 90 quarter units of UC-transferable college credit with a grade point average of at least 2.4.
   
   B. Complete the following course pattern, earning a C or better in each course:
      
      ■ Two UC-transferable college courses (minimum 4.5 quarter units each) in English composition; and
      
      ■ One UC-transferable college course (minimum 4.5 quarter units) in mathematical concepts and quantitative reasoning; and
      
      ■ Four UC-transferable college courses (minimum 4.5 quarter units each) chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, and physical and biological sciences.

Eligibility for transfer does not guarantee admission. To present a competitive application, students are encouraged to exceed minimum requirements.

Priority Application Filing Period

Students are encouraged to apply during the following application periods:

<table>
<thead>
<tr>
<th>Application Accepted for</th>
<th>CSU</th>
<th>UC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Oct. 1–Nov. 30</td>
<td>Nov. 1–30</td>
</tr>
<tr>
<td>Winter</td>
<td>June 1–30</td>
<td>July 1–31</td>
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<tr>
<td>Spring</td>
<td>Aug. 1–31</td>
<td>Oct. 1–31</td>
</tr>
<tr>
<td>Summer</td>
<td>Feb. 1–28</td>
<td></td>
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</tbody>
</table>

While all campuses accept students for fall admission, many do not accept for spring or winter. Consult a counselor for details about a specific campus.
A.A./A.S. Degree General Education Requirements

The requirements for the Associate in Art or Associate in Science Degree include completion of (1) a minimum of 90 units in prescribed courses; (2) a minimum of 24 units completed at Foothill College; (3) a grade-point average of 2.0 or better in all college courses including Foothill courses; (4) a major of at least 27 units in a curriculum approved by the Foothill Curriculum Committee; and (5) the seven general education requirements listed below. Students planning to transfer to four-year colleges or universities should also consult with a counselor for the specific requirements of those institutions.

Students must successfully complete a minimum of 30–35 units from the courses listed below with at least one course in Humanities, English, Natural Sciences (with lab), Social and Behavioral Sciences, Communication and Analytical Thinking, American Cultures and Communities, and two courses in Lifelong Understanding from two different academic departments. Courses may only be used in one area.

**AREA I—HUMANITIES**

**Arts:** ART 1, 2A, 2AH, 2B, 2BH, 2C, 2CH, 2D, 2E, 4A with 4AX, 5A with 5AX, 11, 14, 36, 45A with 45AX; DRAM 1, 5B, 20A, 20B, 20C, 20D, 24, 30; FA 1; GID 1; MUS 1, 2A, 2B, 2C, 3A, 3B, 3C, 7, 8, 8H, 10; PHOT 1 with 1L, 5, 8, 8H, 10, 11; VART 2A, 2B, 2C, 36B; WMN 15.


**AREA II—ENGLISH**

ENGL 1A, 1AH or ESL 26.

**AREA III—NATURAL SCIENCES (WITH LABORATORY)**

ASTR 10A with 10L, 10B with 10L, 10BH with 10L; BIOL 1A, 1B, 1C, 9 with 9L, 10, 13, 14, 40A, 40B, 40C, 41; CHEM 1A, 1B, 25A; GEOG 1; GEOL 10; HORT 10; MET 10 with 10L; PHYS 2A, 4A, 10.

**AREA IV—SOCIAL & BEHAVIORAL SCIENCES**

ANTH 1, 2A, 2B, 3, 4, 5, 6, 8; BUSI 22, 53; CHLD 55; ECON 1A, 1B, 9, 12, 25; GEOG 1, 2, 5, 9, 10; GERM 8; HIST 4A, 4B, 4C, 4CH, 8, 9, 9H, 10, 15, 16, 16H, 17A, 17B, 18, 19, 20, 23A, 30; POLI 1, 2, 2H, 3, 3H, 5, 7, 8, 9, 15, 15H; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 49, 55; SOC 1, 10, 11, 15, 19, 20, 21, 23, 30, 40; SOSC 20; WMN 5, 11, 21.

**AREA V—COMMUNICATION & ANALYTICAL THINKING**

CIS 12A, 15A, 18, 25A; ENGL 1B, 1BH, 4; MATH 1A, 1B, 1C, 2A, 2B, 10, 11, 12, 22, 44, 46, 49, 51; PHIL 1, 7, 8; COMM 1A, 1B, 2, 3, 4, 12, 24, 30, 46, 55.

**AREA VI—AMERICAN CULTURES & COMMUNITIES**

ANTH 4; ART 2D; BIOL 14; CHLD 11; COMM 12; DRAM 8; ENGL 5, 8, 12, 31, 41, 48A, 48B; HIST 9, 9H, 10; MUS 8; PHIL 22; PHOT 8, 8H; POLI 7; PSYC 22; SOC 8, 23; SOSC 20; SPED 61; WMN 5, 11.

**AREA VII—LIFELONG UNDERSTANDING**

Students must successfully complete a total of four units or more in Lifelong Understanding from two different academic departments.

BIOI 8, 9, 45; BUSI 91L; CIS 2, 50A, 60; COIN 51; COMM 2, 10; CNSL 1, 2, 72, 80, 90; CRLP 55, 70; HLTH 21; H P 48; any physical activity course (H P) or ALAP 60, 60X, 61, 61X, 62, 62X, 63, 63X, 64, 64X, 65, 65X, 66, 66X, 70, 70X, 71, 71X, 80, 80X; LIBR 1, 50, 71; SOC 19, 40; SOSC 20; SPED 52, 61, 72

**PETITION FOR GRADUATION**

Upon completion of a majority of major and general education courses, consult with a counselor for information regarding Foothill College graduation procedures. The graduation petition must be filed in the quarter preceding the quarter in which you will complete the requirements for graduation.

Minimum proficiency: ENGL 1A or ESL 26 and MATH 103 or 105*, completed with a letter grade of C or better.

Note: If you intend to transfer to a four-year school, you must complete additional requirements for general education. You are strongly encouraged to meet frequently with a Foothill counselor.

State regulations provide that only one English or ESL course below transferable freshman composition may apply toward the associate degree. At Foothill, those courses are ENGL 110 or ESL 25.

*Intermediate algebra or equivalent means MATH 103 or 105, or mathematics placement test score indicating eligibility for a mathematics course beyond the level of MATH 105, or completion of a higher level course with a grade of C or better, or completion of a bachelor's degree or higher from an accredited U.S. college or university.

For the most current list of requirements, access www.foothill.edu

Effective Fall 2007
Intersegmental General Education Transfer Curriculum (IGETC)

IGETC is a pattern of Foothill College courses that fulfills lower-division general education requirements for transfer to California State University and University of California. IGETC is an alternative to the CSU and local UC General Education-Breadth Requirements. Many private universities also recognize IGETC for fulfillment of general education requirements.

IGETC is a good option for students who intend to transfer but are undecided about a major and/or unsure about attending CSU or UC. Some majors require extensive lower-division preparation, therefore, IGETC may not be the best choice for general education. Some universities do not accept IGETC. Always consult a counselor when developing an educational plan.

Course requirements for all areas of IGETC must be completed with a grade of C or better and certified by Foothill College for university credit. Submit a request for IGETC certification at the Counseling Center or Admissions Office. For updated information, consult your counselor or access www.assist.org.

AREA 1—ENGLISH COMMUNICATION
CSU: Three courses required, one from Group A, B and C.
UC: Two courses required, each one Group A & B.
Group A: English Composition, one course: 4–5 quarter units
ENGL 1A, 1AH
Group B: Critical Thinking-English Composition, one course: 4–5 quarter units
ENGL 1B, 1BH, 1C, 1CH, PHIL 1
Group C: Oral Communication (CSU requirement only) one course: 4–5 quarter units
COMM 1A, 1B, 2, 3, 4

AREA 2—MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING
One course: 4–5 quarter units
CIS 18, MATH 1A, 1B, 1C, 1D, 2A, 2B, 10, 11, 12, 22, 44, 49.

AREA 3—ARTS & HUMANITIES
At least three courses, with at least one course from Arts and one course from Humanities—9 semester; 12–15 quarter units.
Arts: ART 1, 2A, 2B, 2C, 2D, 2E, 3, 11, 12, 13, 14, 66; DRAM 1, 2A, 2B, 2C, 8; ENGL 42A, 42B, 42C; HP 70; MUS 1, 2A, 2B, 2C, 2D, 3A, 3B, 3C, 7, 7D, 7E, 8, 8H, 10, 27, 64A, 64B, 64C, 85A, 85B; PHIL 11; PHOT 8, 10, 11; VART 1, 2A, 2B, 2C, 3; WMN 15
Humanities: CHIN 4, 5; DRAM 2A, 2B, 2C; ENGL 5, 6, 7, 8, 11, 12, 14, 17, 22, 25, 26, 31, 32, 40, 41, 42A, 42B, 42C, 46A, 46B, 46C, 48A, 48B, 48C; FA 1; FREN 4, 5, 39; GERM 4, 5, 25A, 25B; HIST 4A, 4B, 4C 4CH; HUMN 1A, 1B; JAPN 4, 5, 6, 25A, 25B; KORE 4, 5, 6; LING 25, 26; PHIL 2, 4, 8, 20A, 20B, 22, 24, 25; SPAN 4, 5, 25A, 25B.

AREA 4—SOCIAL & BEHAVIORAL SCIENCES
*(CSU transfers see note re: History and Institutions) At least three courses from at least two disciplines or an interdisciplinary sequence: 12–15 quarter units.
ANTH 1, 2A, 2B, 3, 4, 5, 6, 8; ART 2E; CHLD 55; COMM 10, 12; ECON 1A, 1B, 9, 25; GEOG 2, 5, 9, 10; GERM 8; HIST 4A, 4B, 4C, 4CH, 8, 9, 9H, 10, 15, 16, 16H, 17A, 17B, 18, 19, 20A, 20B, 20C, 24, 30; PHOT 8; POLI 1, 2, 3, 5, 7, 8, 9, 15, 24; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 49; SOC 1, 8, 10, 11, 15, 20, 21, 23, 30, 40; SOSC 20; WMN 5, 11, 15, 21

AREA 5—PHYSICAL & BIOLOGICAL SCIENCES
At least two courses, one Physical Science course and one Biological Science course; at least one must include a laboratory (underlined courses include lab): 9–12 quarter units
Physical Sciences: ASTR 10A, 10L, 10B; CHEM 1A, 1B, 1C, 10, 12A, 12B, 12C, 25, 30A, 30B; GEOG 1; GEOG 7, 22, 25, 10, 13; MET 10, 10L; OCEN 10; PHYS 2A, 2B, 2C, 4A, 4B, 4C, 4D, 6, 10, 12
Biological Sciences: ANTH 1; BIOL 1A, 1B, 1C, 1D, 9, 9L, 10, 12, 13, 14, 15, 17, 40A, 40B, 40C, 41; HORT 10

AREA 6—LANGUAGE OTHER THAN ENGLISH
(UC Requirement Only) Proficiency equivalent to two years of high school study in the same language. Transcripts must be on file with Foothill College.
CHIN 2, 3, 4, 5, 6; FREN 2, 3, 4, 5, 6; GERM 2, 3, 4, 5, 6; JAPN 2, 3, 4, 5, 6; KORE 2, 3, 4, 5, 6; SPAN 2, 3, 4, 5, 6, 10A

*CSU Graduation Requirement in U.S. History, Constitution & American Ideals
This CSU requirement is not a part of IGETC. CSU transfer students completing IGETC must complete this requirement prior to graduation from CSU. Courses used to fulfill IGETC may not be double-counted toward this requirement.

In order to complete this requirement prior to transfer, students must complete one course from Group One and one course from Group Two:
Group One: POLI 1 or 7
Group Two: HIST 17A or 17B

Courses used to meet this requirement may not be used to satisfy requirements for IGETC.

For updated information, access www.assist.org

Effective Fall 2007 through Summer 2008.
California State University General Education Breadth Requirements

Foothill College will certify completion of up to 58 quarter units of the 70-unit general education requirement for graduation from the CSU for students who meet the following course patterns. A minimum of 45 units in GE, including all of Area A and B-4 (Math) must be completed prior to transfer. For updated information, consult your counselor or access www.assist.org

AREA A—COMMUNICATION IN THE ENGLISH LANGUAGE & CRITICAL THINKING

12–15 quarter units are required for admission and must be completed with a grade of C or better.

A-1 Oral Communication: (select one course)
COMM 1A, 1B, 2, 3 or 4

A-2 Written Communication: ENGL 1A, 1AH, 1B or ESL 26;

A-3 Critical Thinking: (select one course)
PHIL 1, ENGL 1B, 1BH, 1C, 1CH

AREA B—PHYSICAL UNIVERSE & ITS LIFE FORMS

12–15 quarter units. Choose one course from B-1 and one course from B-2. One course must include a laboratory. Laboratory courses are indicated with an asterisk (*). Complete one course from B-4.

B-1 Physical Science: ASTRO 10A, 10B, 10BH, 10L*; CHEM 1A*, 1B*, 1C*, 1E*, 10*, 25*, 50*; GEOG 1*; GEOL 3, 7, 10*, 11*, 22, 25*, MET 10, 10L*; PHYS 2A*, 2B*, 2C*, 4A*, 4B*, 4C*, 4D*, 6, 10*, 12

B-2 Life Science (Biological): ANTH 1; BIOL 1A*, 1B*, 1C*, 1D, 1DL*, 9, 9L*, 10*, 12, 13*, 14*, 15*, 40A*, 40B*, 40C*, 41*, 45; HORT 10*

B-4 Mathematics/Quantitative Reasoning: (Grade C or better) CIS 18; MATH 1A, 1B, 1C, 1D, 2A, 2B, 10, 11, 12, 22, 44, 49, 51 (required for admission to CSU)

AREA C—ARTS, LITERATURE, PHILOSOPHY & FOREIGN LANGUAGE

Complete 12–15 quarter units, including a minimum of one course from Area C-1 and one course from Area C-2. Note: ENGL 1B is strongly recommended for students who completed PHIL 1 in Area A-3.

C-1 Arts (Art, Dance, Music, Theatre): ART 1, 2A, 2B, 2C, 2D, 2E, 3, 4A with 4AX, 4C with 4CX, 6, 11, 12, 13, 14, 45A with 45AX, 66, 80; COMM 24, 30; DRAM 1, 2A, 2B, 2C, 2D, 3A, 3B, 3C, 7, 7D, 7E, 8, 8H, 10, 10L, 10S, 10T, 10U, 11, 12, 15, 16, 16A, 16B, 16C, 17A, 17B, 19, 20, 23A, 24, 30; POLI 24

C-2 Humanities (Literature, Philosophy, Foreign Languages): CHIN 1, 2, 3, 4, 5, 6; COMM 12, 30, 46; CRWR 6, 39A, 39B, 40, 41A, 41B, 60; DRAM 2A, 2B, 2C, 30; ENGL 1B, 5, 6, 7, 8, 11, 11H, 12, 14, 17, 22, 25, 26, 30, 31, 32, 40, 41, 42A, 42B, 42C, 46A, 46B, 46C, 48A, 48B, 48C, 97A, 97B, 97C, 97D, 97E, 97F; GER 1, 2, 3, 4, 5, 6, 39; GERM 1, 2, 3, 4, 5, 6, 25A, 25B, 29; HUMN 1A, 1B; JPN 1, 2, 3, 4, 5, 6, 25A, 25B, 33; KORE 1, 2, 3, 4, 5, 6; LING 25, 26; MUS 64A, 64B, 64C, 85A, 85B; PHIL 2, 4, 8, 20A, 20B, 22, 24, 25; PHOT 8; SPAN 1, 2, 3, 4, 5, 6, 25A, 25B, 29; VART 2A, 2B

Effective Fall 2007 through Summer 2008
For updated information, access www.assist.org

AREA D—SOCIAL, POLITICAL, ECONOMIC INSTITUTIONS & BEHAVIOR

Complete 12–15 quarter units from #1 and #2 below:

1. American Institutions Requirement for CSU graduation. Complete one course from each group:

Group One: POLI 1 or 7

Group Two: HIST 17A or 17B.

2. Complete at least one course from D-1 through D-0:

D-1 Anthropology & Archaeology: ANTH 1, 2A, 2B, 3, 4, 5, 6, 8, 11, 50

D-2 Economics: ECON 1A, 1B, 9, 25; GEOG 5

D-3 Ethnic Studies: (Some CSU campuses have specific courses to meet this requirement.) ANTH 2A, 2B, 3, 4, 5, 6, 10, 25A, 25B; COMM 12, 25B; ENGL 25; PHIL 24, 25; PSY 21, 23; SOC 21, 23; SOSC 20; WMN 21

D-4 Gender Studies: ART 2E; COMM 10; ENGL 22; PSYC 21; SOC 21; WMN 5, 11, 15, 21

D-5 Geography: GEOG 2, 5, 9, 10

D-6 History: HIST 4A, 4B, 4C, 4CH, 8, 9, 9H, 10, 15, 16, 16H, 17A, 17B, 18, 19, 20, 23A, 24, 30; POLI 24

D-7 Interdisciplinary Social or Behavioral Science: CHLD 11, 55; ENGL 26; HIST 18, 19; LING 26; SOC 8; SOSC 20

D-8 Political Science, Government & Legal Institutions: COMM 6; ECON 9; GERM 8; HIST 30; POLI 1, 2, 3, 4, 5, 6, 7, 8, 9, 15, 24

D-9 Psychology: CHLD 50A, 55; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 49, 55; SOC 10, 21, 30; WMN 21

D-10 Sociology & Criminology: PSYC 10, 21, 30; SOC 1, 8, 10, 11, 15, 20, 21, 23, 30, 40; WMN 21

AREA E—LIFELONG UNDERSTANDING & SELF-DEVELOPMENT

A minimum of four quarter units from the following:

1. BIOL 8

2. CNSL 2, 72, 80

3. CRLP 70

4. HLTH 21

5. HP 48

(maximum allowed: 2 units)
**ACCOUNTING**

**AA Degree, Career Certificate**

Units required for major: 45, certificate: 9–37

**Associate Degree Requirements**

- **Core Courses:** (37 units)
  - ACTG 1A Financial Accounting I (5 units)
  - ACTG 1B Financial Accounting II (5 units)
  - ACTG 1C Managerial Accounting (5 units)
  - ACTG 67 Tax Accounting (5 units)
  - BUSI 18 Business Law I (4 units)
  - BUSI 22 Principles of Business (4 units)
    - or BUSI 53 International Business (4 units)
  - BUSI 91L Introduction to Business Information Processing (4 units)
  - ECON 1A Principles of Macroeconomics (5 units)
    - or ECON 1B Principles of Microeconomics (5 units)

- **Elective Courses:** (8)
  - ACTG 51A Intermediate Accounting (4 units)
  - ACTG 51B Intermediate Accounting (4 units)
  - ACTG 64A QuickBooks (2 units)
  - ACTG 64B MS Excel (2 units)
  - ACTG 65 Payroll Accounting (4 units)
  - ACTG 66 Cost Accounting (4 units)
  - ACTG 68A Advanced Tax Accounting I (4 units)
  - ACTG 68B Advanced Tax Accounting II (4 units)
  - ACTG 68C Advanced Tax Accounting III (3 units)

- **BUSI 19 Business Law II (4 units)**
- **BUSI 53 International Business (4 units)**
- **ECON 1A Principles of Macroeconomics (5 units)**
- **ECON 1B Principles of Microeconomics (5 units)**

**Certificate information**

Request certificate forms at [http://www.foothill.edu/bss](http://www.foothill.edu/bss)

- **Accounting Career Certificate** (37 units)
  - Certificate awarded after completion of the accounting core courses.

- **Accounting Certificate** (22 units)
  - ACTG 1A Financial Accounting I (5 units)
  - ACTG 1B Financial Accounting II (5 units)
  - ACTG 64A QuickBooks (2 units)
  - ACTG 64B Microsoft Excel (2 units)
  - ACTG 51A Intermediate Accounting (4 units)
    - or ACTG 65 Payroll Accounting (4 units)
  - BUSI 22 Principles of Business (4 units)

- **Tax Accounting Certificate** (25 units)
  - ACTG 1A Financial Accounting I (5 units)
  - ACTG 1B Financial Accounting II (5 units)
  - ACTG 64B MS Excel (2 units)
  - ACTG 67 Tax Accounting (5 units)

**ADAPTIVE FITNESS**

**AA Degree, Career Certificate**

Units required for major: 38, certificate: 25

**Associate Degree Requirements**

- **Core Courses:** (30 units)
  - BIOL 40A Human Anatomy & Physiology (5 units)
  - SPED 50 Introduction to Adaptive Fitness Techniques (3 units)
  - SPED 52 Intergenerational Adult Health & Development (3 units)
  - SPED 54 Principles of Therapeutic Exercise (3 units)
  - SPED 55 Geriatric Fitness Concepts (3 units)
  - SPED 62 Psychological Aspects of Disability (4 units)
  - SPED 70 Principles of Therapeutic Aquatic Exercise (3 units)

- **Support Courses:** (8 units)
  - BIOL 14 Human Biology (5 units)
  - BIOL 40B Human Anatomy & Physiology (5 units)
  - or BIOL 40C Human Anatomy & Physiology (5 units)
  - BIOL 4S Introduction to Human Nutrition (4 units)
  - H P 12 Lifeguard Training (4 units)
  - HLTH 5 Emergency Response (5 units)
  - MATH 10 Elementary Statistics (5 units)
  - P T 55 Concepts of Exercise (4 units)
  - PSYC 1 General Psychology (5 units)
  - PSYC 25 Introduction to Abnormal Psychology (4 units)
  - COMM 1A Public Speaking (4.5 units)
  - COMM 2 Interpersonal Communication (5 units)

**Enrolled Agent Preparation Program Career Certificate** (16 units)

- ACTG 67 Tax Accounting (5 units)
- ACTG 68A Advanced Tax Accounting I (4 units)
- ACTG 68B Advanced Tax Accounting II (4 units)
- ACTG 68C Advanced Tax Accounting III (3 units)

**Tax Specialist Career Certificate** (13 units)

- ACTG 67 Tax Accounting (5 units)
- ACTG 68A Advanced Tax Accounting I (4 units)
- ACTG 68B Advanced Tax Accounting II (4 units)

**Bookkeeping Specialist Career Certificate** (11 units)

- ACTG 60 Accounting for Small Business (5 units)
  - or ACTG 1A Financial Accounting I (5 units)
- ACTG 64A QuickBooks (2 units)
- BUSI 91L Introduction to Business Information Processing (4 units)

**Certified Bookkeeper Preparation Program** (9 units)

- ACTG 60 Accounting for Small Business (5 units)
  - or ACTG 1A Financial Accounting I (5 units)
- ACTG 65 Payroll Accounting (4 units)

1. May be taken only once for credit (either core or elective).
2. May be taken only once for credit (either core or elective).

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.*

Foothill College 2007–2008  www.foothill.edu
SPED 63 Learning Disabilities (4 units)
SPED 64 Disability & the Law (4 units)
SPED 65 Fundamentals of Attention Deficit Disorder (4 units)
SPED 66 Disability & Technology Access (4 units)
SPED 67Y Adaptive Fitness Directed Study (3 units)
SPED 69 Special Education Strategies & Practicum (4 units)
SPED 71 Special Topics in the Field of Fitness Therapy (3 units)
SPED 72 Stress, Wellness & Coping (3 units)
GERN 71 Culture Counts: Maintaining Positive Mental Health Within a Cultural Content (.5 unit)
GERN 72 Cross-Cultural Issues in Death & Dying (.5 unit)
GERN 73 Cultural Issues in Emergency Preparedness & Older Adults (.5 unit)
GERN 74 Cultural Diversity in Long-Term Care (.5 unit)
SPED 60 Introduction to Adaptive Fitness Techniques (3 units)
SPED 52 Intergenerational Adult Health & Development (3 units)
SPED 54 Principles of Therapeutic Exercise (3 units)
SPED 55 Geriatric Fitness Concepts (3 units)
SPED 57 Functional Aspects of Adaptive Fitness (3 units)
SPED 59 Working with Special Populations (3 units)
SPED 62 Psychological Aspects of Disability (4 units)
SPED 70 Principles of Therapeutic Aquatic Exercise (3 units)

**AMERICAN STUDIES**

**AA Degree**

Units required for major: 35

Associate Degree Requirements*

Core Courses: (27 units)
ART 14 American Art (4.5 units)
ENGL 43 Literature of Multicultural America (4 units)
HIST 17A History of the United States to 1877 (5 units)
HIST 17B History of the United States from 1877 (5 units)
MUS 8 Music of Multicultural America (4 units)
or MUS 8H Music of Multicultural America (Honors) (4 units)
POLI 1 American Government & Politics (4 units)
or POLI 7 American Government & Politics from a Black Perspective (5 units)

Support Courses: (8 units)
ANTH 4 Indians of North America (4 units)
HIST 10 History of California: The Multicultural State (4 units)
PSYC 22 Psychology of Prejudice (4 units)
SOC 15 Law & Society (4 units)
WMN 5 Introduction to Women's Studies (4 units)

**ANTHROPOLOGY**

**AA Degree, Certificate of Achievement**

Units required for major: 32

Associate Degree Requirements*

Core Courses: (16 units)
ANTH 1 Introduction to Physical Anthropology (4 units)

Support Courses: (8 units)
ANTH 4 Indians of North America (4 units)
HIST 10 History of California: The Multicultural State (4 units)
PSYC 22 Psychology of Prejudice (4 units)
SOC 15 Law & Society (4 units)
WMN 5 Introduction to Women's Studies (4 units)

Certificate information
Request certificate forms at www.foothill.edu/bss/cert/index.php

**Medical Anthropology Certificate of Achievement (16 units)**

ANTH 50 Medical Anthropology: Methods & Practice (4 units)

And one of the following:

ANTH 1 Introduction to Physical Anthropology (4 units)

And 8 units from the following:

BIOL 14 Human Biology (5 units)
BIOL 40A Human Anatomy & Physiology (5 units)
or BIOL 40B Human Anatomy & Physiology (5 units)
PSYC 4 Introduction to Psychobiology (4 units)
PSYC 10 Introduction to Social Research (4 units)
PSYC 40 Human Development (4 units)
SOC 19 Sociology of Alcohol & Drugs (4 units)
ANTH 35 Department Honors Projects in Anthropology (1–4 units)
ANTH 36 Special Projects in Anthropology (1–4 units)

* Students may also use courses listed under support courses for electives.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

Foothill College 2007–2008 www.foothill.edu
Physical Anthropology Certificate of Achievement (13 units)
- ANTH 1 Physical Anthropology (4 units)
- ANTH 1L Physical Anthropology Lab (1 units)

And 8 units from the following:
- BIOL 1C Evolution, Systematics & Ecology (6 units)
- BIOL 10 General Biology (5 units)
- BIOL 12 Human Genetics (4 units)
- ANTH 34 Honors Institute Seminar in Anthropology (1–4 units)
- ANTH 35 Department Honors Projects in Anthropology (1–4 units)
- ANTH 36 Special Projects in Anthropology (1–4 units)

Archaeology Certificate of Achievement (12 units)
Select 8 units from the following:
- ANTH 3 Prehistory: The Search for Lost Civilizations (4 units)
- ANTH 8 Indians of North America (4 units)
- ANTH 8L Archaeology Laboratory (2 units)
- ANTH 11 Archaeological Field Methods (4 units)
- ANTH 11B Archaeology Survey (2 units)

and 4 units from the following:
- HIST 8 History of Latin America (4 units)
- HIST 15 History of Mexico (4 units)
- HIST 18 Introduction to Middle Eastern Civilization (4 units)
- HIST 19 History of Asia: China/Japan (4 units)
- GEOG 1 Physical Geography (4 units)
- GEOG 12 Introduction to Geographic Information Systems (GIS) (5 units)
- GEOL 10 Introductory Geoscience (4 units)
- GEOL 11 Evolution of the Earth (4 units)
- ANTH 34 Honors Institute Seminar in Anthropology (1–4 units)
- ANTH 35 Department Honors Projects in Anthropology (1–4 units)
- ANTH 36 Special Projects in Anthropology (1–4 units)

Cultural Anthropology Certificate of Achievement (12 units)
Select 8 units from the following:
- ANTH 2A Cultural Anthropology (4 units)
- ANTH 2B Patterns of Culture (4 units)
- ANTH 5 Magic, Science & Religion (4 units)
- ANTH 6 Peoples of Africa (4 units)
- ANTH 4 Indians of North America (4 units)

And 4 units from the following:
- COMM 12 Intercultural Communication (4 units)
- ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
- ENGL 26 Language, Mind & Society (4 units)
- or LING 26 Language, Mind & Society (4 units)
- GEOG 2 Human Geography (4 units)
- GEOG 12 Introduction to Geographic Information Systems (GIS) (5 units)
- HIST 9 History of Contemporary Europe (4 units)
- HUMN 1A Humanities & the Modern Experience (4 units)
- MUS 7D Contemporary Musical Styles: The Beatles in the Culture of Popular Music (4 units)
- MUS 8 Music of Multicultural America (4 units)

SOCS 20 Cross-Cultural Perspectives for a Multicultural Society (4 units)
- SOC 30 Social Psychology (4 units)
- SOC 40 Aspects of Marriage & Family (4 units)
- WMN 5 Introduction to Women's Studies (4 units)
- ANTH 34 Honors Institute Seminar in Anthropology (1–4 units)
- ANTH 35 Department Honors Projects in Anthropology (1–4 units)
- ANTH 36 Special Projects in Anthropology (1–4 units)

**ART GENERAL**

AA Degree, Certificate of Completion, Certificate of Proficiency

Units required for major: 46.5, certificate: 24–46.5

**Associate Degree Requirements**

Core Courses: (28.5 units)
- ART 1 Introduction to Art (4.5 units)
- ART 4A Introduction to Drawing (3 units)
- ART 4B Intermediate Drawing (3 units)
- ART 4C Advanced Drawing (3 units)
- or ART 4D Figure Drawing (3 units)
- ART 5A Basic Two-Dimensional Design (3 units)
- ART 5B Three-Dimensional Design (3 units)
- ART 6 Collage & Composition (3 units)
- ART 20A Color (3 units)
- ART 45A Beginning Ceramics Handbuilding (3 units)

Support Courses: (18 units minimum)
- ART 2A Art History (4.5 units)
- or ART 2AH Art History (Honors) (4.5 units)
- ART 2B Art History (4.5 units)
- or ART 2BH Art History (Honors) (4.5 units)
- ART 2C Art History (4.5 units)
- or ART 2CH Art History (Honors) (4.5 units)
- ART 2D African, Oceanic & Native American Art (4.5 units)
- ART 2E History of Women in Art (4 units)
- ART 3 Modern Art & Contemporary Thought (4 units)
- ART 4C Advanced Drawing (3 units)
- ART 4D Figure Drawing (3 units)
- ART 4E Portrait Drawing (3 units)
- ART 8 Basic Perspective Drawing (3 units)
- ART 11 Introduction to Mexican Art & Architecture (4 units)
- ART 14 American Art (4.5 units)
- ART 19A Painting (3 units)
- ART 19B Painting (3 units)
- ART 19C Painting (3 units)
- ART 44 Ceramic Sculpture (3 units)
- ART 45B Beginning Ceramics Potter’s Wheel (3 units)
- ART 45C Advanced Ceramics (3 units)
- ART 45D Advanced Ceramics Decorating Techniques (3 units)

* ART 4AX is required if transferring to CSU and using ART 4A to satisfy the humanities requirement.
* ART 5AX is required if transferring to CSU and using ART 5A to satisfy the humanities requirement.
* ART 45AX is required if transferring to CSU and using 45A to satisfy the humanities requirement.
*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**ART HISTORY**

**AA Degree, Certificate of Completion, Certificate of Proficiency**

Units required for major: 51, certificate: 18–51

Associate Degree Requirements*

Core Courses: (39 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART 1 Introduction to Art (4.5 units)</td>
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<tr>
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<td>or ART 2AH Art History (Honors) (4.5 units)</td>
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<td>or ART 2CH Art History (Honors) (4.5 units)</td>
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<tr>
<td>ART 2D African, Oceanic &amp; Native American Art (4.5 units)</td>
<td></td>
</tr>
<tr>
<td>ART 14 American Art (4.5 units)</td>
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<tr>
<td>HIST 4A History of Western Civilization (4 units)</td>
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<tr>
<td>HIST 4B History of Western Civilization (4 units)</td>
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<tr>
<td>HIST 4C History of Western Civilization (4 units)</td>
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Support Courses: (12 units minimum)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 2E History of Women in Art (4 units)</td>
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<tr>
<td>ART 12 Asian Art Survey (4.5 units)</td>
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<tr>
<td>ART 13 Islamic Art &amp; Architecture (4.5 units)</td>
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<tr>
<td>ART 3 Modern Art &amp; Contemporary Thought (4.5 units)</td>
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<tr>
<td>PHOT 10 History of Photography (4 units)</td>
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<tr>
<td>ART 4A Introduction to Drawing (3 units)</td>
<td>concurrent with ART 4AX Critique Seminar (1 unit)</td>
</tr>
<tr>
<td>ART 1A recommended before taking art history courses if no previous experience in art.</td>
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<tr>
<td>ENGL 16 Introduction to Literary Study (4 units)</td>
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Certificate of Proficiency in Art History (50 units)

Same as A.A. degree, except general education courses are not required.

**Certificate of Completion in Art History (18 units)**

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<thead>
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<tr>
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<tr>
<td>ART 2B Art History (4.5 units)</td>
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<tr>
<td>ART 2C Art History (4.5 units)</td>
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</tbody>
</table>

**ART STUDIO**

**AA Degree, Certificate of Proficiency**

Units required for major: 53.5 minimum, certificate: 53.5 minimum

Associate Degree Requirements*

Core Courses: (44.5–47.5 units)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>or ART 2AH Art History (Honors) (4.5 units)</td>
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<td>or ART 2CH Art History (Honors) (4.5 units)</td>
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<tr>
<td>or ART 4AX Critique Seminar (1 unit)</td>
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<tr>
<td>ART 4B Intermediate Drawing (3 units)</td>
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</table>

Support Courses: (6 units)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 1A recommended before taking art history courses if no previous experience in art.</td>
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</tr>
</tbody>
</table>

* ART 4A is required if transferring to CSU and using ART 4A to satisfy the humanities requirement.
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**ART 4C Advanced Drawing (3 units)**
- or ART 4D Figure Drawing (3 units)
- ART 6 Collage & Composition (3 units)
- ART SA Basic Two-Dimensional Design (3 units)
- ART SB Three-Dimensional Design (3 units)
- or ART 45A Beginning Ceramics Handbuilding (3 units)
- ART 20A Color (3 units)
- ART 20B Color (3 units)
- ART 72 Studio Art Portfolio Preparation (3 units)
- GID 74 Introduction to Digital Art & Graphics (4 units)

**Support Courses: (9 units minimum)**
Students may configure the 9 units of support courses in any manner depending upon the requirements of their transfer institution.

**Two-Dimensional Art**
- ART 4C Advanced Drawing (3 units)
- ART 4D Figure Drawing (3 units)
- ART 8 Basic Perspective Drawing (3 units)
- ART 19A Painting (3 units)
- ART 19B Painting (3 units)
- ART 19C Painting (3 units)
- ART 47 Watercolor (3 units)
- ART 69 Introduction to Printmaking (3 units)
- or GID 38 Printmaking I (4 units)
- ART 86 Painting with the Computer (3 units)
- GID 90 Book Arts 1 (4 units)
- VART 20 Digital Video Production I (4 units)
- or GID 20 Digital Video Production I (4 units)
- GID 40 Digital Printmaking (4 units)
- GID 50 Graphic Design Studio I (4 units)
- GID 60 Careers in Visual Art (2 units)
- GID 70 Graphic Design Drawing (4 units)
- GID 76 Illustration & Digital Imaging (4 units)
- PHOT 1 Black & White Photography I (4 units)
- or PHOT 5 Introduction to Photography (4 units)

**Three-Dimensional Art**
- ART 5B Three-Dimensional Design (3 units)
- ART 43 Mold Construction for Ceramics (3 units)
- ART 44 Ceramic Sculpture (3 units)
- ART 45A Beginning Ceramics: Handbuilding (3 units)
- ART 45B Beginning Ceramics: Potter's Wheel (3 units)
- ART 45C Advanced Ceramics (3 units)
- ART 45D Advanced Ceramics: Decorating Techniques (3 units)
- ART 45F Low-Temperature Firing (3 units)
- ART 70 Kiln Design, Construction & Operation (3 units)
- DRAM 21 and DRAM 21A Fundamentals of Theatre Production (4 units)

1. **ART 5AX** is required if transferring to CSU and using ART 5A to satisfy the humanities requirement.
2. **ART 45AX** is required if transferring to CSU and using ART 45A to satisfy the humanities requirement.
3. **ART 45AX** is required if transferring to CSU and using ART 45A to satisfy the humanities requirement.

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**Art History**
- ART 2D African, Oceanic & Native American Art (4.5 units)
- ART 2E History of Women in Art (4.5 units)
- ART 3 Modern Art & Contemporary Thought (4.5 units)
- ART 11 Introduction to Mexican Art & Architecture (4.5 units)
- ART 14 American Art (4.5 units)

**Certificate of Proficiency in Art/Studio (53.5 units minimum)**
Same as A.A. degree except that general education courses are not required.

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**ATHLETIC INJURY CARE: P. E. HUMAN PERFORMANCE**

**AS Degree**

**Units required for major: 42**

**Associate Degree Requirements**

**Core Courses:** (42 units)
- H P 1 Introduction to Physical Education (4 units)
- H P 52A Clinical Experiences in Sports Medicine I (3 units)
- H P 52B Clinical Experiences in Sports Medicine II (3 units)
- H P 52C Clinical Experiences in Sports Medicine III (3 units)
- H P 67A Prevention of Athletic Injuries (3 units)
- H P 67B Emergency Athletic Injury Care (3 units)
- H P 67C Treatment & Rehabilitation of Athletic Injuries (3 units)
- BIOL 40A Anatomy & Physiology (5 units)
- BIOL 40B Anatomy & Physiology (5 units)
- BIOL 40C Anatomy & Physiology (5 units)
- CHEM 25 Fundamentals of Chemistry (5 units)
- or CHEM 30A Survey of Inorganic & Organic Chemistry (5 units)

**Elective Courses:**
- H P 48 Concepts of Physical Fitness & Wellness (4 units)
- H P 52F PNF: Introduction to the Upper Extremity (3 units)
- H P 52G PNF: Introduction to the Lower Extremity (3 units)
- CHEM 1A General Chemistry (5 units)
- CHEM 1B General Chemistry (5 units)
- CHEM 1C General Chemistry (5 units)
- HLTH 5 Advanced First Aid (5 units)
- MATH 10 Elementary Statistics (5 units)
- PHYS 2A General Physics (5 units)
- PHYS 2B General Physics (5 units)
- PHYS 2C General Physics (5 units)
- PSYC 1A General Psychology (5 units)

**BIOINFORMATICS**

**AS Degree, Career Certificate**

**Units required for major: 52, certificate: 48**

**Associate Degree Requirements**

**Support Courses:**
- Biotechnology core courses (13 units)
  - BTEC 51A Cell Biology for Biotechnology (3 units)
  - BTEC 52A Molecular Biology for Biotechnology (3 units)
  - BTEC 65 DNA Electrophoretic Systems (1 unit)
  - BTEC 68 Polymerase Chain Reaction (1 unit)

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*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.*

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BTEC 71 DNA Sequencing & Bioinformatics (2 units)
BTEC 76 Introduction to Microarray Data Analysis (2 units)
BTEC 64 Protein Electrophoretic Systems (1 unit)
BTEC 66 HPLC (2 units)
(recommended, but not required)

**Computer Science Core Courses (30 units)**
- CIS 27A Computer Science I: JAVA (5 units)
- CIS 52A Introduction to Data Management Systems (5 units)
- CIS 52B Oracle SQL (5 units)
- CIS 68A Introduction to UNIX (5 units)
- CIS 68E Introduction to PERL (5 units)
- COIN 81 Bioinformatics Tools & Databases (5 units)

**Career Certificate (48 units)**
- MATH 10 Statistics (5 units)
- Biotechnology core courses (13 units)
- Computer Science core courses (30 units)

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**BIOTECHNOLOGY**

**AS Degree, Career Certificate**

**Units required for major: 73–75, certificate: 62–64**

**Associate Degree Requirements**

**Career Certificate (62–64 units)**

Courses to be taken in sequence: (many courses offered once a year)

**Fall Quarter**
- BTEC 51A Cell Biology for Biotechnology (3 units)
- BTEC 51AL Cell Biology Lab for Biotechnology (5.5 units)
- BTEC 55 Laboratory Safety (3 units)
- HORT 52D Plant Biotechnology: Micropropagation (3 units)

**Winter Quarter**
- BTEC 72A Molecular Biology for Biotechnology (3 units)
- BTEC 72AL Molecular Biology Lab for Biotechnology (5.5 units)
- BTEC 61 Microbial Biotechnology (4.5 units)
- BTEC 69 Mammalian Cell Culture (3 units)

**Spring Quarter**
- BTEC 73A Immunology for Biotechnology (3 units)
- BTEC 73AL Immunology/Virology Laboratory for Biotechnology (5.5 units)
- BTEC 54 Biotechnology Externship (4 units)
- BTEC 57A Virology for Biotechnology (3 units)
- VT 86 Laboratory Animal Care Course (4 units)

Courses to be taken as student schedule permits:
- LIBR 1 Principles of Library Research (3 units)
- one of the following computer courses:
  - CIS 50A Using the Computer: PC (5 units)
  - CIS 52A Introduction to Data Management Systems (5 units)
- CAST 107D Excel: Basics (3 units)
- CAST 109F Using Access (3 units)

**BTEC short courses:**
- Completion of 6 units, including:
  - BTEC 66 HPLC: Basic Laboratory Technique (2 units)
  - BTEC 68 Polymerase Chain Reaction: Basic Laboratory Technique (1 unit)
  - BTEC 71 DNA Sequencing & Bioinformatics Laboratory Techniques (2 units)

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**BUSINESS ADMINISTRATION**

**AA Degree, Certificate of Completion, Career Certificate, Skills Certificate**

**Units required for major: 50, certificate: 3–25**

**Associate Degree Requirements**

**Core Courses: (23 units)**
- BUSI 22 Principles of Business (4 units)
- BUSI 18 Business Law I (4 units)
- ACTG 1A Financial Accounting I (5 units)
- ACTG 1B Financial Accounting II (5 units)
- ACTG 1C Managerial Accounting (5 units)

**Support Courses: (27 units)**
- BUSI 19 Business Law II (4 units)
- BUSI 53 International Business (4 units)
- BUSI 59 Principles of Marketing (4 units)
- BUSI 91L Introduction to Business Information Processing (4 units)
- ECON 1A Principles of Macroeconomics (5 units)
- ECON 1B Principles of Microeconomics (5 units)
- MATH 10 Elementary Statistics (5 units)
- MATH 11 Finite Math (5 units)
- MATH 12 Calculus for Business & Economics (5 units)

**CSU campuses require:**
- MATH 11 Finite Math (5 units)
- MATH 12 Calculus for Business & Economics (5 units)

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*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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1 Consult your counselor for details in meeting math requirements for A.A. degree, CSU and UC requirements in business administration.
University of California campuses require:
MATH 1A & 1B Calculus

Certificate information
Request certificate forms at bss.foothill.fhda.edu/certificates. 55 percent of certificate coursework must be completed at Foothill College. Core coursework must be completed with a grade of C or better.

Career Certificate in E-Commerce & Electronic Business
(24 units)
BUSI 22 Principles of Business (4 units)
or BUSI 53 International Business (4 units)
BUSI 91L Introduction to Business Information Processing (4 units)
or BUSI 95 Small Business Management (3 units)
COIN 56 Electronic Business (4 units)
COIN 58 Electronic Commerce Project (5 units)
COIN 61 Publishing On the Web using HTML/XHTML (5 units)

Career Certificate in Business Management: (22 units)
BUSI 22 Principles of Business (4 units)
or BUSI 53 International Business (4 units)
BUSI 18 Business Law I (4 units)
BUSI 61 Investment Fundamentals (3 units)
BUSI 59 Principles of Marketing (4 units)
BUSI 57 Principles of Advertising (4 units)
BUSI 9SE Small Business Export & Import (3 units)
or ACTG 1A Financial Accounting I (5 units)
or ECON 1A Principles of Macroeconomics (5 units)
or BUSI 19 Business Law II (4 units)
or BUSI 91L Introduction to Business Information Processing (4 units)

Career Certificate in Marketing (15 units)
BUSI 22 Principles of Business (4 units)
BUSI 57 Principles of Advertising (4 units)
BUSI 59 Principles of Marketing (4 units)
BUSI 61 Principles of Salesmanship (3 units)

Certificate in Small Business (6 units)
BUSI 95 Small Business Management (3 units)
BUSI 97 Management Seminar: Creative Decision Analysis (.5 unit)
BUSI 133A Starting a Small Business (1 unit)
BUSI 131B How to Start a Home-Based Business (.5 unit)
BUSI 133E Small Business Marketing, Research & Planning (1 unit)
Certificate of Continuing Education Units: Business-Dispute Resolution (3.5 units)
BUSI 120 Dispute Resolution & Mediation (3.5 units)

BUSINESS INTERNATIONAL STUDIES

AA Degree, Certificate of Completion, Career Certificate, Skills Certificate

Units required for major: 46, certificate: 21–46

Associate Degree Requirements*
Core Courses: (23 units)
BUSI 53 Survey of International Business (4 units)
BUSI 18 Business Law I (4 units)

Career Certificate Requirements:
BUSI 95E Small Business Export & Import (3 units)
BUSI 8 Survey of International Marketing (4 units)
BUSI 22 Principles of Business (4 units)
ECON 1B Principles of Microeconomics (5 units)
ECON 25 Introduction to the Global Economy (4 units)
ACTG 1C Financial Accounting (5 units)
at least one course from each subject category:
Geography (1 course)
GEOG 1 Physical Geography (5 units)
GEOG 2 Human Geography (4 units)
GEOG 10 World Regional Geography (4 units)

History (1 course)
HIST 8 History of Latin America (4 units)
HIST 9 History of Contemporary Europe (4 units)
or HIST 9H History of Contemporary Europe (Honors) (4 units)
HIST 15 History of Mexico (4 units)
HIST 18 Introduction to Middle Eastern Civilization (4 units)
HIST 19 History of Asia: China/Japan (4 units)
HIST 20 History of Russia/Soviet Union (4 units)

Political Science/Language (1 course or language proficiency)
POLI 2 Comparative Government & Politics (4 units)
or POLI 2H Comparative Government & Politics (Honors) (4 units)
POLI 15 International Relations (4 units)
or POLI 15H International Relations (Honors) (4 units)
or advanced language proficiency in same language as in previous required courses (level 4/5, or tested proficiency; if student tests in this area, proficiency may count for only 4 units).

Certificate in International Business Strategy (23 units)
BUSI 53 Survey of International Business (4 units)
BUSI 8 Survey of International Marketing (4 units)
BUSI 95E Small Business Export & Import (3 units)
ECON 25 Introduction to the Global Economy (4 Units)
POLI 15 International Relations/World Politics (4 units)
or POLI 15H International Relations/World Politics (Honors) (4 units)

History (select one of the following courses):
HIST 8 History of Latin America (4 units)
or HIST 9 History of Contemporary Europe (4 units)
or HIST 9H History of Contemporary Europe (Honors) (4 units)
or HIST 15 History of Mexico (4 units)
or HIST 18 Introduction to Middle Eastern Civilization (4 units)
or HIST 19 History of Asia: China/Japan (4 units)
or HIST 20 History of Russia & the Soviet Union (4 units)
or ACCT 1A Financial Accounting (5 units)

International Business Career Certificate (46 units)
This certificate awarded after the completion of the core and supporting courses.

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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BUSINESS TECHNOLOGY: OFFICE ADMINISTRATION

AS Degree, Skills Certificate
Units required for major: 59–61, certificate: 21–61

Associate Degree Requirements*
All coursework equivalent to obtaining a career certificate.

Business Communication Skills Certificate (21 units)
Core Courses: (18 units)
CIS 51A Introduction to Technology Careers I (3 units)
CIS 60 Introduction to Business Information Systems (5 units)
B T 59 Integrated Business Communication (5 units)
MATH 101 Algebra I (5 units)
B T 51A Professional Keyboarding I (1 units)
B T 51B Professional Keyboarding II (1 units)
B T 51C Proofreading (1 units)

Word Processing/Desktop Publishing Skills Certificate (36 units)
Requires the Business Communication Certificate and the following:
CAST 104A Microsoft Word I (3 units)
CAST 86A Introduction to Adobe InDesign (4 units)
CAST 92A Introduction to Adobe Photoshop (4 units)
CIS 51C Workplace Principles & Practices (4 units)

Accounting/Spreadsheets Skills Certificate (37 units)
Requires the Business Communication Certificate and the following:
CAST 107D Using Excel (3 units)
ACTG 1A Principles of Accounting (5 units)
ACTG 64A Computerized Accounting Practice (2 units)
ACTG 64B Computerized Accounting Programs (2 units)
CIS 51C Workplace Principles & Practices (4 units)

Database/SQL Skills Certificate (38 units)
Requires the Business Communication Certificate and the following:
CAST 109F Using Access (3 units)
CIS 52A Introduction to Data Management Systems (5 units)
CIS 52B Oracle SQL (5 units)
CIS 51C Workplace Principles & Practices (4 units)

Internet/Electronic Commerce Skills Certificate (40 units)
Requires the Business Communication Certificate and the following:
COIN 51 Fundamentals of Internet Technology (5 units)
COIN 56 Electronic Business (5 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
CIS 51C Workplace Principles & Practices (4 units)

Office Manager: Office Computing Career Certificate (59 units)
Requires the Business Communication Certificate and the following:
ENGL 1A Composition & Reading (5 units)
CIS 96Y Special Project (3 units)
BUS 22 Principles of Business (4 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 56 Electronic Commerce (5 units)
CIS 60 Introduction to Business Information Systems (5 units)
CAST 86A Introduction to Adobe InDesign (4 units)
CAST 93A PowerPoint: Effective Presentations (3 units)
CIS 51C Workplace Principles & Practices (4 units)

Office Manager: General Office Career Certificate (61.5 units)
Requires the Business Communication Certificate and the following:
ENGL 1A Composition & Reading (5 units)
or ENGL 1AH Composition & Reading (Honors) (5 units)
CIS 96Y Special Project (3 units)
BUS 22 Principles of Business (4 units)
ACTG 1A Principles of Accounting I (5 units)
ACTG 1B Principles of Accounting II (5 units)
MATH 105 Intermediate Algebra (5 units)
MATH 10 Elementary Statistics (5 units)
BUS 18 Business Law (4 units)
CIS 51C Workplace Principles & Practices (4 units)

CHEMISTRY

AS Degree
Units required for major: 52

Associate Degree Requirements*
Core Courses: (52 units)
Chemistry: 25 units minimum:
CHEM 1A General Chemistry (5 units)
CHEM 1B General Chemistry (5 units)
CHEM 1C General Chemistry (5 units)
CHEM 12A Organic Chemistry (6 units)
CHEM 12B Organic Chemistry (6 units)
CHEM 12C Organic Chemistry (6 units)
CHEM 30B Survey of Organic & Biochemistry (5 units)

Mathematics: (10 units minimum)1
MATH 1A Calculus (5 units)
MATH 1B Calculus (5 units)
MATH 1C Calculus (5 units)
MATH 1D Calculus (5 units)
MATH 2A Differential Equations (5 units)

Physics: (10 units minimum)2
PHYS 2A General Physics (5 units)
PHYS 2B General Physics (5 units)
PHYS 2C General Physics (5 units)
PHYS 4A General Physics-Calculus (6 units)
PHYS 4B General Physics-Calculus (6 units)
PHYS 4C General Physics-Calculus (6 units)
PHYS 4D General Physics-Calculus (6 units)

CHILD DEVELOPMENT

AA Degree, Certificate of Achievement, Certificate of Proficiency
May be transferable to a four-year university.
Units required for major: 40, certificate: 24–80

Associate Degree Requirements*
Core Courses: (15 units)
CHLD 55 Child Growth & Development (5 units)

1 Must have a combined 25 units from math and physics.
2 Must have a combined 25 units from math and physics.
CHLD 56N Introduction to Child Development (4 units)
CHLD 88 Child, Family & Community (4 units)
CHLD 88B Positive Behavior Management (2 units)

**Support Courses:** (22 units)
- CHLD 11 Affirming Diversity in Education (4 units)
- CHLD 56 Observation Techniques (4 units)
- CHLD 72 Language Development (3 units)
- CHLD 86B Practicum Student Teaching in an ECE Program (5 units)
- CHLD 95 Health, Safety & Nutrition in Children's Programs (3 units)

**Plus one of the following:**
- CHLD 59 Working with School-Age Children: Principles & Practicum (3 units)
- CHLD 79 Caring for Infants & Toddlers in Groups (3 units)
- CHLD 89 Curriculum for the Preschool Classroom (3 units)

**Elective Courses:** (3 units)
- ENGL 8 Children's Literature (4 units)
- CHLD 50 School-Age Child (5-12): Behavior & Development (3 units)
- CHLD 50A Infant/Toddler Development (3 units)
- CHLD 53NP Atypical Development in Early Years (3 units)
- CHLD 79 Caring for Infants & Toddlers in Groups (3 units) (if not used as a support course)
- CHLD 85 Literacy & Literature (3 units)
- CHLD 86A Mentoring & Professional Development of ECE Professionals (4 units)
- CHLD 89 Curriculum for the Preschool Classroom (3 units) (if not used as a support course)
- CHLD 91 Administration & Supervision: Adult Supervision (4 units)
- CHLD 90C Administration & Supervision: Program Operation (4 units)
- CHLD 91 Administration & Supervision: Adult Supervision (4 units)

**CHINESE**

**AA Degree, Certificate of Completion, Certificate of Proficiency**

Units required for major: 30, certificate: 12–30

**Associate Degree Requirements**
- Core Courses: (30 units)
  - CHIN 1 Elementary Chinese I (5 units)
  - CHIN 2 Elementary Chinese II (5 units)
  - CHIN 3 Elementary Chinese III (5 units)
  - CHIN 4 Intermediate Chinese I (5 units)
  - CHIN 5 Intermediate Chinese II (5 units)
  - CHIN 6 Intermediate Chinese III (5 units)
  - CHIN 13A Intermediate Conversation I (3 units)
  - CHIN 13B Intermediate Conversation II (3 units)
  - CHIN 14A Advanced Conversation I (3 units)
  - CHIN 14B Advanced Conversation II (3 units)
  - CHIN 25A Advanced Composition & Reading (4 units)
  - CHIN 25B Advanced Composition & Reading (4 units)

1. This certificate meets the requirements for the California Commission on Teacher Credentialing Child Development Associate Teacher Permit.
2. This certificate meets the requirements for the California Commission on Teacher Credentialing Child Development Associate Teacher Permit.
3. This certificate meets the requirements for the California Commission on Teacher Credentialing Child Development Associate Teacher Permit.
4. This certificate meets the requirements for the California Commission on Teacher Credentialing Child Development Associate Teacher Permit.
5. This certificate is awarded after completion of the major requirements plus 24 General Education units (one course in the following categories): English/Language Arts, Math or Science, Social Science, Humanities and/or Fine Arts. It also meets the requirements for the California Commission on Teacher Credentialing Child Development Teacher Permit.
6. This certificate meets the requirements for the California Commission on Teacher Credentialing Child Development Site Supervisor Permit.
7. At least 18 of these units must be completed at Foothill College.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**Recommended Courses**
- ENGL 23 Modern English: Function & Grammar (4 units)
- ENGL 25 Descriptive & Historical Linguistics (4 units)
- ENGL 26 Language, Mind & Society (4 units)

**Certificate of Chinese Conversation (12 units)**
- CHIN 13A Intermediate Conversation I (3 units)
- CHIN 13B Intermediate Conversation II (3 units)
- CHIN 14A Advanced Conversation I (3 units)
- CHIN 14B Advanced Conversation II (3 units)

**Certificate of Chinese Completion (15 units)**
- CHIN 1 Elementary Chinese (5 units)
- CHIN 2 Elementary Chinese (5 units)
- CHIN 3 Elementary Chinese (5 units)

**Certificate of Chinese Proficiency (30 units)**
- CHIN 1 Elementary Chinese (5 units)
- CHIN 2 Elementary Chinese (5 units)
- CHIN 3 Elementary Chinese (5 units)
- CHIN 4 Intermediate Chinese (5 units)
- CHIN 5 Intermediate Chinese (5 units)
- CHIN 6 Intermediate Chinese (5 units)
- CHIN 13A Intermediate Conversation I (3 units)
- CHIN 13B Intermediate Conversation II (3 units)
- CHIN 14A Advanced Conversation I (3 units)
- CHIN 14B Advanced Conversation II (3 units)
- CHIN 25A Advanced Composition & Reading (4 units)
- CHIN 25B Advanced Composition & Reading (4 units)

### COMMUNICATION STUDIES

**AA Degree, Certificate of Achievement, Certificate of Completion, Certificate of Proficiency**

Units required for major: 51–54, certificate: 12–17

**Associate Degree Requirements**

**Core Courses:** (27 units minimum)
- COMM 1A Public Speaking (4.5 units)

**and at least two of these:**
- COMM 1B Argumentation & Persuasion (4.5 units)
- COMM 2 Interpersonal Communication (4.5 units)
- COMM 3 Fundamentals of Oral Communication (4.5 units)
- COMM 4 Group Discussion (4.5 units)
- COMM 10 Gender, Communication & Culture (4.5 units)

**and at least three of these:** (13.5 units minimum)
- COMM 6 The Rhetoric of Political Speech (4.5 units)
- COMM 12 Intercultural Communication (4.5 units)
- COMM 30 Oral Interpretation of Literature (4.5 units)
- COMM 46 Voice & Diction (4.5 units)
- COMM 53/54, X, Y, Z Forensic/Intercollegiate Speech & Debate (1.5–4.5 units)
- COMM 55 Professional & Career Communication (4.5 units)

**Intercultural Concentration Core (27 units minimum)**
- COMM 12 Intercultural Communication (4.5 units)
- COMM 10 Gender, Communication & Culture (4.5 units)

**and at least two of these:**
- COMM 1A Public Speaking (4.5 units)
- COMM 1B Argumentation & Persuasion (4.5 units)
- COMM 3 Fundamentals of Oral Communication (4.5 units)
- COMM 4 Group Discussion (4.5 units)
- COMM 30 Oral Interpretation of Literature (4.5 units)
- COMM 46 Voice & Diction (4.5 units)
- COMM 53/54, X, Y, Z Forensic/Intercollegiate Speech & Debate (1.5–4.5 units)
- COMM 55 Professional & Career Communication (4.5 units)

**and at least one of these:**
- COMM 1A Public Speaking (4.5 units)
- DRAM 8 Multicultural Mosaic of Performing Arts in America (4 units)
- HIST 10 History of California (4 units)
- MUS 8 Music of Multicultural America (4 units)
- MUS 8H Music of Multicultural America (Honors) (4 units)
- PSYC 22 Psychology of Prejudice (4 units)
- SOC 20 Major Social Problems (4 units)
- SOSE 20 Cross-Cultural Perspectives for a Multicultural Society (4 units)
- WMN 11 Women in Global Perspective (4 units)

**and at least one of these:**
- COMM 2 Interpersonal Communication (4.5 units)
- ANTH 4 First Peoples of North America (4 units)
- ANTH 6 Peoples of Africa (4 units)
- ENGL 5 Gay & Lesbian Literature (4 units)
- ENGL 7 Native American Literature (4 units)
- ENGL 12 African American Literature (4 units)
- ENGL 31 Chicano Literature (4 units)
- ENGL 40 Asian American Literature (4 units)
- POLI 7 American Government & Politics from a Black Perspective (5 units)

**Rhetoric Concentration Core (27 units minimum)**
- COMM 1A Public Speaking (4.5 units)
- COMM 1B Argumentation & Persuasion (4.5 units)

**and at least two of these:**
- COMM 3 Fundamentals of Oral Communication (4.5 units)
- COMM 4 Group Discussion (4.5 units)
- COMM 6 The Rhetoric of Political Speech (4.5 units)
- COMM 10 Gender, Communication & Culture (4.5 units)
- COMM 12 Intercultural Communication (4.5 units)

**and at least two of these:**
- COMM 2 Interpersonal Communication (4.5 units)
- COMM 30 Oral Interpretation of Literature (4.5 units)
- COMM 46 Voice & Diction (4.5 units)
- COMM 53/54, X, Y, Z Forensic/Intercollegiate Speech & Debate (1.5–4.5 units)
- COMM 55 Professional & Career Communication (4.5 units)
- ENGL 4 Journalism (4 units)

1. At least 9 of these units must be completed at Foothill College
2. At least 10 of these units must be completed at Foothill College
3. At least 18 of these units must be completed at Foothill College.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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ENGL 26 Language, Mind & Society (4 units) or ENGL 26 Language, Mind & Society (4 units) VART 2B History of Film (4 units) PHIL 1 Critical Thinking (5 units) PHIL 7 Introduction to Symbolic Logic (5 units) COMM 55 Professional & Career Communication (4.5 units) Certificate of Achievement (12 Units Minimum)
A minimum of any three communication courses.
Certificate of Completion (17 units minimum)
Two of these:
COMM 1A Public Speaking (4.5 units) COMM 2 Interpersonal Communication (4.5 units) COMM 3 Fundamentals of Oral Communication (4.5 units) COMM 4 Group Discussion (4.5 units) COMM 10 Gender, Communication & Culture (4.5 units) COMM 12 Intercultural Communication (4.5 units) And any additional two communications courses (8 units minimum) Certificate of Proficiency (51–54 units)
Same as A.A. degree, except general education courses are not required.

**COMPUTER SCIENCE**

**AS Degree, Skills Certificate**

Units required for major: 54–55, certificate: 28

**Associate Degree Requirements**

**Core Courses**: (35 units)
Prerequisite: MATH 49 or equivalent
CIS 15A-B-C Computer Science I-II-III: C++ (5-5-5 units) or CIS 27A-B-C Computer Science I-II-II: JAVA (5-5-5 units) and MATH 1A-B-C Calculus (5-5-5 units)
MATH 22 Discrete Mathematics (5 units)

**Elective Courses**: (19–20)
CIS 12A Fundamentals of VB.NET Programming (5 units)
CIS 19A Introduction to Programming with C# (5 units)
CIS 27P JAVA for Programmers (5 units)
CIS 27D JAVA Advanced Features (5 units)
CIS 52A Introduction to Data Management Systems (5 units)
CIS 52B Oracle SQL (5 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68B Linux & UNIX Shell Programming (5 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA I) (5 units)
MATH 1D Calculus (5 units)
MATH 2A Differential Equations (5 units)
MATH 2B Linear Algebra (5 units)
PHYS 4A Calculus Physics I (6 units)

**COMPUTER SOFTWARE DEVELOPMENT**

**AS Degree, Career Certificate, Skills Certificate**

Units required for major: 45, certificate: 20–40

**Associate Degree Requirements**

**Core Courses**: (25 units)
CIS 15A-B-C Computer Science I-II-III: C++ (5-5-5 units) or CIS 27A-B-C Computer Science I-II-II: JAVA (5-5-5 units) and CIS 52A Introduction to Data Management Systems (5 units)
CIS 78 Software Engineering (5 units)

**Elective Courses**: (20 units)
CIS 12A Fundamentals of VB.NET Programming (5 units)
MATH 22 Discrete Mathematics (5 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68B Linux & UNIX Shell Programming (5 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (5 units)

**Certificate of Achievement (12 Units Minimum)**
A minimum of any three communication courses.

**Certificate of Completion (17 units minimum)**
Two of these:
COMM 1A Public Speaking (4.5 units) COMM 2 Interpersonal Communication (4.5 units) COMM 3 Fundamentals of Oral Communication (4.5 units) COMM 4 Group Discussion (4.5 units) COMM 10 Gender, Communication & Culture (4.5 units) COMM 12 Intercultural Communication (4.5 units) And any additional two communications courses (8 units minimum)

**Certificate of Proficiency (51–54 units)**
Same as A.A. degree, except general education courses are not required.

**Linux/UNIX System Operation & Administration Career Certificate (40 units)**

**Core Courses** (30 units):
CIS 15A-B-C Computer Science I-II-III: JAVA (5 units) or CIS 15A Computer Science I: C++ (5 units) CIS 68A Introduction to Linux & UNIX (5 units) CIS 68B Linux & UNIX Shell Programming (5 units) CIS 68C1 Linux & UNIX System Administration (5 units) CIS 68C2 Linux & UNIX Networking Administration (5 units) CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (5 units)

**Electives** (10 units):
CIS 27B Computer Science II: JAVA (5 units) or CIS 15B Computer Science II: C++ (5 units) CIS 68E Introduction to PERL (5 units) CIS 68K Introduction to Python (5 units)

**Object-Oriented Software Using C++ Career Certificate (40 units)**

**Core Courses** (25 units):
CIS 15A Computer Science I: C++ (5 units) CIS 15B Computer Science II: C++ (5 units) CIS 15C Computer Science III: C++ (5 units) CIS 52A Introduction to Data Management Systems (5 units) CIS 78 Software Engineering (5 units)

**Electives** (15 units):
CIS 12A Fundamentals of VB.NET Programming (5 units) CIS 19A Introduction to Programming with C# (5 units) CIS 68A Introduction to Linux & UNIX (5 units) CIS 68B Linux & UNIX Shell Programming (5 units) CIS 68E Introduction to PERL (5 units) CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (5 units) CIS 27P JAVA for Programmers (5 units)
Object-Oriented Software Using JAVA Career Certificate (40 units)
Core Courses (25 units):
CIS 27A Computer Science I: JAVA (5 units)
CIS 27B Computer Science II: JAVA (5 units)
CIS 27C Computer Science III: JAVA (5 units)
CIS 52A Introduction to Data Management Systems (5 units)
CIS 78 Software Engineering (5 units)
Electives (15 units):
CIS 12A Fundamentals of VB.NET Programming (5 units)
CIS 19A Introduction to Programming with C# (5 units)
CIS 27D JAVA Advanced Features (5 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68B Linux & UNIX Shell Programming (5 units)
CIS 68E Introduction to PERL (5 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (4 units)
Microsoft Certified Application Developer C# Skills Certificate (20 units)
CIS 19A Fundamentals of C# Programming (5 units)
CIS 19D Developing Windows-Based Applications with C# (5 units)
CIS 19W Developing Web Applications with C# (5 units)
CIS 54C SQL Server Database Design (5 units)
Linux/UNIX Skills Certificate (20 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (5 units)
CIS 68C1 Linux & UNIX System Administration (5 units)
CIS 68C2 Linux & UNIX Networking Administration (5 units)

CREATIVE WRITING
AA Degree, Certificate of Achievement

Units required for major: 33–35, certificate: 14–15

Associate Degree Requirements*

Core Courses: (33–35 units)
ENGL 1B Composition, Critical Reading & Thinking (5 units)
or ENGL 1B Composition, Critical Reading & Thinking (Honors) (5 units)
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Introduction to Short Story Writing (5 units)
CRWR 41A Poetry Writing (5 units)
and one of these:
CRWR 39B Advanced Short Fiction Writing (5 units)
CRWR 41B Advanced Poetry Writing (5 units)
and one of these:
CRWR 40 Introduction to Writing the Novel (5 units)
CRWR 60 Memoir Writing (5 units)
and one of these:
ENGL 3 Technical Writing (5 units)
ENGL 4 Journalism (4 units)
ENGL 5 Gay & Lesbian Literature (4 units)
ENGL 7 Native American Literature (4 units)
ENGL 8 Children’s Literature (4 units)
ENGL 11 Introduction to Poetry (4 units)
ENGL 12 Introduction to African American Literature (4 units)
ENGL 14 Introduction to Contemporary Fiction (4 units)
ENGL 17 Introduction to Shakespeare (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
or ENGL 25H Introduction to Descriptive & Historical Linguistics (Honors) (4 units)
or LING 25 Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25H Introduction to Descriptive & Historical Linguistics (Honors) (4 units)
ENGL 26 Language, Mind & Society (4 units)
ENGL 31 Chicano Literature (4 units)
ENGL 40 Asian American Literature (4 units)
ENGL 41 Literature of Multicultural America (4 units)
ENGL 46A Survey of English Literature (4 units)
ENGL 46B Survey of English Literature (4 units)
ENGL 46C Survey of English Literature (4 units)
ENGL 48A Survey of American Literature (4 units)
ENGL 48B Survey of American Literature (4 units)
ENGL 48C Survey of American Literature (4 units)

Certificate Information:
At least two of the three courses for each certificate must be completed at Foothill College.

Certificate in Creative Writing: Genres (15 units)
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Short Fiction (5 units)
CRWR 41A Poetry (5 units)

Certificate in Creative Writing: Fiction (15 units)
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Short Fiction (5 units)
CRWR 39B Advanced Short Fiction (5 units)

Certificate in Creative Writing: Poetry (15 units)
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 41A Poetry (5 units)
CRWR 41B Advanced Poetry (5 units)

Certificate of Reading & Writing: Poetry (14 units)
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 41A Poetry (5 units)
and one of these:
ENGL 11 Introduction to Poetry (4 units)
ENGL 48A, B, or C Survey of American Literature (4 units)
ENGL 46A, B, or C Survey of British Literature (4 units)

Certificate of Reading & Writing: Fiction (14 units)
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Short Fiction (5 units)

and one of these:
ENGL 14 Contemporary Fiction (4 units)
ENGL 48A, B, or C Survey of American Literature (4 units)
ENGL 46A, B, or C Survey of British Literature (4 units)

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
Foothill College 2007–2008  www.foothill.edu
### DATABASE MANAGEMENT

#### AS Degree, Career Certificate, Skills Certificate

Units required for major: 40, certificate: 15–40

**Associate Degree Requirements**

- Oracle Database Administration Career Certificate (40 units)
- CIS 52A Introduction to Data Management Systems (5 units)
- CIS 52B Oracle SQL (5 units)
- CIS 52C Data Modeling & Relational Database Design (5 units)
- CIS 52E Oracle Database Administration I (5 units)
- CIS 52F Oracle Database Administration II (5 units)
- CIS 52J Oracle PL/SQL (5 units)
- CIS 68A Introduction to Linux & UNIX (5 units)
- CNET 50 Fundamentals of Data Communication & Networking (5 units)

**Oracle Database Developer Career Certificate (40 units)**

- CIS 52A Introduction to Data Management Systems (5 units)
- CIS 52B Oracle SQL (5 units)
- CIS 52J Oracle PL/SQL (5 units)
- CIS 52K Oracle Forms (5 units)
- CIS 68A Introduction to Linux & UNIX (5 units)

Select three:

- CIS 52C Data Modeling & Relational Database Design (5 units)
- CIS 52M Oracle Reports (5 units)
- CIS 62A Data Warehousing & Data Mining (5 units)
- CIS 68E Programming in PERL (5 units)
- CIS 27A Computer Science I: JAVA (5 units)

**Other Certificate Information**

All certificates require ENGL 110, or ESL 25 or equivalent as well as MATH 101 or equivalent.

Oracle Database Administration Skills Certificate (15 units)

- CIS 52B Oracle SQL (5 units)
- CIS 52E Oracle Database Administration I (5 units)
- CIS 52F Oracle Database Administration II (5 units)

Oracle Database Developer Skills Certificate (15 units)

- CIS 52B Oracle SQL (5 units)
- CIS 52J Oracle PL/SQL (5 units)
- CIS 52K Oracle Forms (5 units)

Open Source Databases Skills Certificate (15 units)

- CIS 52N PHP & MySQL (5 units)
- CIS 52Q MySQL: In Depth (5 units)
- CIS 52P PHP Programming (5 units)

Microsoft Certified IT Professional (MCP) Database Administration Skills Certificate (15 units)

- CIS 54C Microsoft SQL Server Database Design (5 units)
- CIS 54D Microsoft SQL Server 2005 (5 units)
- CIS 54E Microsoft SQL Server Database Administration (5 units)

### DENTAL ASSISTING

#### AS Degree, Career Certificate

Units required for major: 44.5, certificate: 44.5

**Associate Degree Requirements**

- Core Courses: (44.5 units)

#### Fall Quarter

- DA 50 Orientation to Dental Assisting (3 units)
- DA 51A Introduction to Chair-side Dental Assisting (6 units)
- DA 62A Dental Sciences (2 units)
- DA 53A Introduction to Radiography (3 units)
- DA 58 Dental Specialties (1 unit)
- DA 71 Infection Control & Hazardous Waste Management (1.5 units)

#### Winter Quarter

- DA 51B Intermediate Chair-side Assisting & Supervised Clinic (2 units)
- DA 57 Office Emergency Procedures (2 units)
- DA 62B Dental Sciences (2 units)
- DA 53B Dental Radiography (2 units)
- DA 56 Dental Health Education (1 unit)
- DA 60A Dental Office Business Practices (2 units)
- DA 73 Supervised Clinical Practice (3 units)

#### Spring Quarter

- DA 51C Advance Dental Assisting Skills (3 units)
- DA 53C Dental Radiography (1 unit)
- DA 62C Dental Sciences (2 units)
- DA 60B Dental Office Business Practices (3 units)
- DA 63 Special Patient Populations (1 unit)
- DA 74 Dental Assisting Clinical Practice (3 units)
- DA 85 RDA Review (1 unit)

**Career Certificate in Dental Assisting:**

Core dental assisting courses; Cardiopulmonary Resuscitation Certificate (Health Care Provider, American Heart Association); Eligibility for ENGL 110 (or equivalent) or ESL 25 (or equivalent); MATH 200 (or equivalent).

### DENTAL HYGIENE

#### AS Degree

Units required for major: 123.5

**Associate Degree Requirements**

- Core Courses: (123.5 units)

#### First Year

**Summer Session**

- DH 50 Orientation to Dental Hygiene (1 unit)

**Fall Quarter**

- DH 52A Oral Biology (3 units)
- DH 52B Oral Biology (4 units)
- DH 59 Survey of Dentistry (1 unit)
- DH 60A Introduction to Dental Radiology (2 units)
- BIOL 40A Anatomy & Physiology (5 units)

### Notes

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

Foothill College 2007–2008  www.foothill.edu
**DIAGNOSTIC MEDICAL SONOGRAPHY**

**AS Degree, Career Certificate**

Units required for major: 86, certificate: 86

Associate Degree Requirements*

Core Courses: (86 units)

**Summer Session**

DMS 50A DMS Principles & Protocols (4 units)
DMS 50B Sonography & Patient Care (2 units)
DMS 52A Physical Principles of Ultrasound (3 units)
DMS 60A Critique & Pathology (2 units)
DMS 72A DMS Procedures & Applications (6 units)
DMS 190X Directed Study (1 unit)

**Fall Quarter**

DMS 51A Sectional Anatomy (3 units)
DMS 53A Diagnostic Medical Sonography (2 units)
DMS 54A Gynecology (2 units)
DMS 60B Critique & Pathology (1 unit)
DMS 70A Clinical Preceptorship (8.5 units) (32 hrs/wk)
DMS 190Y Directed Study (1.5 units)

**Winter Quarter**

DMS 52B Physical Principles of Ultrasound (3 units)
DMS 53B Diagnostic Medical Sonography (2 units)
DMS 55A Obstetrics (2 units)
DMS 60C Critique & Pathology (1 unit)
DMS 70B Clinical Preceptorship (8.5 units) (32 hrs/wk)
DMS 190Y Directed Study (1.5 units)

**Spring Quarter**

DMS 53C Diagnostic Medical Sonography (2 units)
DMS 55B Obstetrics (2 units)
DMS 56A Vascular Sonography (3 units)
DMS 60D Critique & Pathology (1 unit)
DMS 70C Clinical Preceptorship (8 units) (32 hrs/wk)
DMS 190Y Directed Study (1.5 units)

**Summer Session**

DMS 72E DMS Procedures & Applications (2 units)
DMS 80A Advanced Principles of Ultrasound (3 units)
DMS 60E Critique & Pathology (1 unit)
DMS 70D Clinical Preceptorship (8 units) (32 hrs/wk)
DMS 190X Directed Studies (1 unit)

**Career Certificate (86 units)**

Awarded after completion of DMS core courses and a GPA of 2.5 C or better in all core courses.

**DRAMA/THEATRE ARTS**

**AA Degree, Certificate of Completion**

See Theatre Arts/Drama.

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*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.*

Foothill College 2007–2008  www.foothill.edu
**ECONOMICS**

**AA Degree**

Units required for major: 30  
Associate Degree Requirements*  
Core Courses: (18 units)  
ECON 1A Principles of Macroeconomics (5 units)  
ECON 1B Principles of Microeconomics (5 units)  
ECON 9 Political Economy (4 units)\(^1\)  
ECON 25 Introduction to the Global Economy (4 units)\(^2\)  
Support Courses: (8 units)  
BUSI 53 Survey of International Business (4 units)  
GEOG 5 Introduction to Economic Geography (4 units)  
MATH 10 Elementary Statistics (5 units)  
MATH 1A Calculus (5 units)  
Elective Courses: (4 units)\(^3\)  
HIST 4A History of Western Civilization (4 units)  
HIST 4B History of Western Civilization (4 units)  
HIST 4C History of Western Civilization (4 units)  
HIST 9 History of Contemporary Europe (4 units)  
HIST 17A History of the United States (5 units)  
HIST 18 Introduction to Middle Eastern Civilization (4 units)  
HIST 19 History of Asia: China/Japan (4 units)  
POLI 3 Introduction to Political Science (5 units)  
POLI 15 International Relations (4 units)  

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**ENGLISH**

**AA Degree, Certificate of Completion**

Units required for major: 33, certificate: 12  
Associate Degree Requirements*  
Core Courses: (33 units)  
ENGL 1B Composition, Critical Reading & Thinking (5 units)  
or ENGL 1BH Composition, Critical Reading & Thinking (Honors) (5 units)  
and ENGL 46A-B-C Survey of English Literature (4-4-4 units)  
or ENGL 48A-B-C Survey of American Literature (4-4-4 units)  
and two of these:  
ENGL 8 Children’s Literature (4 units)  
or ENGL 11 Introduction to Poetry (4 units)  
or ENGL 11H Introduction to Poetry (Honors) (4 units)  
ENGL 14 Introduction to Contemporary Fiction (4 units)  
ENGL 17 Introduction to Shakespeare (4 units)  
and one of these:  
ENGL 23 Modern English: Function & Grammar (4 units)  
or ENGL 23H Modern English: Function & Grammar (Honors) (4 units)  
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)  
or ENGL 25H Introduction to Descriptive & Historical Linguistics (Honors) (4 units)  
or LING 25 Introduction to Descriptive & Historical Linguistics (4 units)  
or LING 25H Introduction to Descriptive & Historical Linguistics (Honors) (4 units)  
ENGL 26 Language, Mind & Society (4 units)  
or ENGL 26H Language, Mind & Society (Honors) (4 units)  
and one of these:  
ENGL 5 Gay & Lesbian Literature (4 units)  
ENGL 7 Native American Literature (4 units)  
ENGL 12 African American Literature (4 units)  
ENGL 22 Women Writers (4 units)  
ENGL 31 Chicano Literature (4 units)  
ENGL 40 Asian American Literature (4 units)  
ENGL 41 Multicultural Literature (4 units)  
Support Courses: (8 units)  
Recommended Courses  
ENGL 1C Advanced Composition (4 units)  
or ENGL 1CH Advanced Composition (Honors) (4 units)  
ENGL 54 Professional Writing (offered infrequently) (4 units)  
American Literature (12 units)  
ENGL 7 Native American Literature (4 units)  
ENGL 12 African American Literature (4 units)  

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**ENGINEERING**

**AS Degree**

Units required for major: 67  
Associate Degree Requirements*  
Core Courses: (48 units)  
CHEM 1A General Chemistry (5 units)  
CHEM 1B General Chemistry (5 units)  
CIS 15A Computer Science I : C++ (5 units)  
MATH 1B Calculus (5 units)  
MATH 1C Calculus (5 units)  
MATH 1D Calculus (5 units)  
PHYS 4A General Physics-Calculus (6 units)  
PHYS 4B General Physics-Calculus (6 units)  
PHYS 4C General Physics-Calculus (6 units)  
Support Courses: (10 units)  
Recommended Courses  
MATH 2A Differential Equations (5 units)  
MATH 2B Linear Algebra (5 units)  

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1 Students may also use ECON 9, 12, and/or 25 as a support or elective course.  
2 Students may also use ECON 9, 12, and/or 25 as a support or elective course.  
3 Students may also use courses listed under support courses for electives.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

Foothill College 2007–2008 www.foothill.edu
ENGL 31 Chicano Literature (4 units)
ENGL 40 Asian American Literature (4 units)
ENGL 41 Literature of Multicultural America (4 units)
ENGL 48A Survey of American Literature (5 units)
ENGL 48B Survey of American Literature (5 units)
ENGL 48C Survey of American Literature (5 units)

British Literature (12 units)
ENGL 17 Introduction to Shakespeare (4 units)
ENGL 46A Survey of English Literature (4 units)
ENGL 46B Survey of English Literature (4 units)
ENGL 46C Survey of English Literature (4 units)

Literary Genres (12 units)
ENGL 8 Children's Literature (4 units)
ENGL 11 Introduction to Poetry (4 units)
or ENGL 11H Introduction to Poetry (Honors) (4 units)
ENGL 14 Contemporary Fiction (4 units)
ENGL 17 Introduction to Shakespeare (4 units)

Multicultural Literature (12 units)
ENGL 5 Gay & Lesbian Literature (4 units)
ENGL 7 Native American Literature (4 units)
ENGL 12 African American Literature (4 units)
ENGL 22 Women Writers (4 units)
ENGL 31 Chicano Literature (4 units)
ENGL 40 Asian American Literature (4 units)
ENGL 41 Literature of Multicultural America (4 units)

Written Communication (12 units)
ENGL 1A Composition & Reading (5 units)
or ENGL 1AH Composition & Reading (Honors) (5 units)
ENGL 1B Composition, Critical Reading & Thinking (5 units)
or ENGL 1BH Composition, Critical Reading & Thinking (Honors) (5 units)
ENGL 1C Advanced Composition (4 units)
or ENGL 1CH Advanced Composition (Honors) (4 units)
ENGL 3 Technical Writing (5 units)
ENGL 4 Journalism (4 units)
ENGL 23 Modern English (4 units)
ENGL 54 Professional Writing Skills (4 units)

Linguistics (12 units)
ENGL 23 Modern English: Function & Grammar (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
or ENGL 2HS Introduction to Descriptive & Historical Linguistics (Honors) (4 units)
ENGL 26 Language, Mind & Society (4 units)

ENTERPRISE NETWORKING

AS Degree, Skills Certificate

Units required for major: 55, certificate: 15–25

Associate Degree Requirements*
Core Courses: (45 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68C1 Linux & UNIX Systems Administration (5 units)

Support Courses: (10 units)
Select one of the following groups:
MCSE Group (10 units)
CNET 60B Microsoft Windows 2003 Network Services (5 units)
CNET 60F Microsoft Windows 2003 Exchange Server (5 units)

CCNA Group (10 units)
CNET 54C Switching Basics & Intermediate Routing (CCNA 3) (5 units)
CNET 54D WAN Technologies (CCNA 4) (5 units)

UNIX Group (10 units)
CIS 68B Linux & UNIX Shell Programming (5 units)
CIS 68C2 Linux & UNIX Network Administration (5 units)

Wireless Group (10 units)
CNET 65B Wireless Network Security (5 units)

Security Group (10 units)
CNET 56F Linux & UNIX System Security (5 units)

Certificate information
All certificates require ENGL 110, ESL 25, or equivalent; MATH 101 or equivalent; CNET 50 or equivalent (prerequisite to all certificates); additional requirements as listed below.

Cisco CCNA Academy Certificate (20 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (5 units)
CNET 54B Routers & Router Configuration (CCNA 2) (5 units)
CNET 54C Switching Basics & Intermediate Routing (CCNA 3) (5 units)
CNET 54D WAN Technologies (CCNA 4) (5 units)

Cisco CCNP Academy Certificate (20 units)
CNET 54G Advanced Routing (CCNP 1) (5 units)
CNET 54H Remote Access (CCNP 2) (5 units)
CNET 54I Multi-layer Switching (CCNP 3) (5 units)
CNET 54J Network Troubleshooting (CCNP 4) (5 units)

MCSA Preparation Certificate (20 units)
CNET 75A Microsoft Windows Vista (5 units)
CNET 60A Microsoft Windows 2003 Server (5 units)
CNET 60B Microsoft Windows 2003 Network Services (5 units)
CNET 60F Microsoft Windows 2003 Exchange Server (5 units)

* Designed to prepare the student to receive the CCNA credential. Note that the last four classes in this certificate exactly correspond to the four CCNA exams.
2 Designed to prepare the student to receive the CCNP credential. CCNA certification or equivalent is required to enter this program.
3 Designed to prepare the student for the MCSA exam.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
MCSE Preparation Certificate (15 units)
CNET 60C Microsoft Windows 2003 Network Infrastructure (5 units)
CNET 60D Microsoft Windows 2003 Active Directory (5 units)
CNET 60E Microsoft Windows 2003 Network Design (5 units)
MCDST Preparation Certificate (19 units)
CNET 75A Microsoft Windows Vista (5 units)
CNET 60G Microsoft Windows XP OS Troubleshooting & Support (5 units)
CNET 60H Supporting Users & Troubleshooting Applications on an MS Windows XP OS (5 units)
CNET 119 Customer Service for IT Professionals (4 units)
Wireless Networking Certificate (20 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (5 units)
CNET 65A Wireless Network Administration (5 units)
CNET 65B Wireless Network Security (5 units)
CNET 65C Wireless Network Analysis (5 units)
Network Security Certificate (25 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (5 units)
CNET 56A Introduction to Network Security (5 units)
CNET 56B Intrusion Detection, Awareness, Analysis & Prevention (5 units)
and CNET 56E Windows XP/2000/2003 System Security (5 units)
CNET 56F Linux & UNIX System Security (5 units)
or CNET 54L Network Security I: Firewalls Access Controls & Identity Management (5 units)
CNET 54M CISCO Network Security II: VPIPs, Intrusion Detection & Prevention Systems (5 units)

Environmental Horticulture & Design

AS Degree, Career Certificate, Skills Certificate

Units required for major: 64-65, certificate: 45-65

Associate Degree Requirements*
Core Courses: (45 units)
HORT 10 Environmental Horticulture & the Urban Landscape (5 units)
HORT 50A Orientation to Environmental Horticulture (4 units)
HORT 51A Plant Materials I (3 units)
HORT 51B Plant Materials II (3 units)
HORT 52A Horticultural Practices: Soils (3 units)
HORT 52C Horticultural Practices: Plant Installation & Maintenance (3 units)
HORT 54A Landscape Construction: General Practices (4 units)
HORT 54B Landscape Construction: Technical Practices (3 units)
HORT 54C Landscape Construction: Irrigation Practices (3 units)
HORT 60A Landscape Design: Graphic Communication (4 units)
HORT 60B Landscape Design: Theory (3 units)
HORT 60C Landscape Design: Irrigation (3 units)
HORT 80 Environmental Horticulture Skills (4 units)¹

Support Courses: (19–20 units)
Plant Material Specialization (2 units)
HORT 51C Plant Materials: Annuals (2 units)
HORT 51D Plant Materials: California Native Plants (2 units)
HORT 51E Plant Materials: Ground Covers & Vines (2 units)
HORT 51F Plant Materials: Grasses, Bamboos & Palms (2 units)
HORT 51G Plant Materials: Interior & Tropical Plants (2 units)
HORT 51H Plant Materials: Perennials (2 units)
HORT 51J Plant Materials: Cacti & Succulents (2 units)
Career Focus Specialization (11–12 units)
HORT 52B Horticultural Practices: Plant Propagation (3 units)
HORT 52D Horticultural Practices: Biotechnology & Micropropagation (3 units)
HORT 52E Horticultural Practices: Greenhouse & Nursery Management (3 units)
HORT 52F Horticultural Practices: Interiorscoping (3 units)
HORT 52G Horticultural Practices: Turfgrass Management (3 units)
HORT 52H Horticultural Practices: Integrated Pest Management (3 units)
HORT 54D Landscape Construction: Applied Practices (2 units)
HORT 55A Green Industry Management: Business Practices (3 units)
HORT 55B Green Industry Management: Employee Practices (3 units)
HORT 60D Landscape Design: Planting (3 units)
HORT 60E Landscape Design: Computer Applications (3 units)
HORT 60F Landscape Design: Process (3 units)
Environmental Horticulture Skills (4 units)
HORT 80 Environmental Horticulture Skills (4 units)²

Short Course Specialization (2 units)
HORT 90A Container Plantings in the Landscape (1 unit)
HORT 90B Environmental Horticulture Careers (1 unit)
HORT 90C Garden Ponds & Water Features (1 unit)
HORT 90D Herbs: Identification, Use & Folklore (1 unit)
HORT 90E Horticultural & Landscape Photography (1 unit)
HORT 90F Landscape Design: Basic Principles (1 unit)
HORT 90G Landscape Design Forum (1 unit)
HORT 90H Landscape Lighting (1 unit)
HORT 90I Landscape Sustainability Practices (1 unit)
HORT 90J Landscape Tools & Equipment (1 unit)
HORT 90K Landscaping with Edibles (1 unit)
HORT 90L Plant Propagation: Basic Skills (1 unit)
HORT 90M Plant Nutrition & Fertilization (1 unit)
HORT 90N Plant Material: Fall Color (1 unit)
HORT 90P Pruning: Basic Skills (1 unit)
HORT 90Q Residential Irrigation Systems (1 unit)
HORT 90R Seasonal Floral Design (1 unit)
HORT 90S Technical Update on Insect Management for Pest Control Advisors (1 unit)
HORT 90T Gardens of the Renaissance (1 unit)
HORT 90U Landscape Design: Perspective Sketching (1 unit)
HORT 90W Water Features in European Gardens (1 unit)
HORT 90X Xeriscaping: Creating Water Conserving Landscapes (1 unit)

¹ This course must be repeated 2 times
² A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
Foothill College 2007–2008 www.foothill.edu
Career Certificate (64 units)
Same as A.S. degree, except general education courses are not required. HORT 80 must be taken four times for a total of 8 units.1
Skills Certificate (45 units)
Completion of the core courses with a letter grade of C or better.

### FRENCH

**AA Degree, Certificate of Achievement, Certificate of Completion, Certificate of Proficiency**

Units required for major: 30, certificate: 12–30

Associate Degree Requirements*
Core Courses: (30 units)2
- **FREN 1** Elementary French (5 units)
- **FREN 2** Elementary French (5 units)
- **FREN 3** Elementary French (5 units)
- **FREN 4** Intermediate French (5 units)
- **FREN 5** Intermediate French (5 units)
- **FREN 6** Intermediate French (5 units)
- **FREN 13A** Intermediate Conversation I (3 units)
- **FREN 13B** Intermediate Conversation II (3 units)
- **FREN 14A** Advanced Conversation I (3 units)
- **FREN 14B** Advanced Conversation II (3 units)

Support Courses: (5 units)
- **FREN 39** French Literature in Translation (4 units)
- **ENGL 25** Introduction to Descriptive & Historical Linguistics (4 units)
- **or ENGL 25H** Introduction to Descriptive & Historical Linguistics (Honors) (4 units)
- **or LING 25** Introduction to Descriptive & Historical Linguistics (4 units)
- **or LING 25H** Introduction to Descriptive & Historical Linguistics (Honors) (4 units)
- **ENGL 26** Language, Mind & Society (4 units)

Certificate of French Language Completion (15 units)3
- **FREN 1** Elementary French (5 units)
- **FREN 2** Elementary French (5 units)
- **FREN 3** Elementary French (5 units)

Certificate of Achievement in French Conversation (12 units)4
- **FREN 13A** Intermediate Conversation (3 units)
- **FREN 13B** Intermediate Conversation (3 units)
- **FREN 14A** Advanced Conversation I (3 units)
- **FREN 14B** Advanced Conversation II (3 units)

Certificate of French Language Proficiency (30 units)5
- **FREN 1** Elementary French (5 units)
- **FREN 2** Elementary French (5 units)
- **FREN 3** Elementary French (5 units)
- **FREN 4** Intermediate French (5 units)

1 HORT 80 must be taken 2 times for a total of 4 units.
2 At least 18 units must be completed in residence at Foothill College.
3 At least 10 units must be completed in residence at Foothill College.
4 At least 9 units must be completed in residence at Foothill College.
5 At least 18 units must be completed in residence at Foothill College.

### GENERAL STUDIES/HUMANITIES

**AA Degree**

Units required for major: 28

Associate Degree Requirements*
Core Courses: (8 units)6
- **HUMN 1A** Humanities & the Modern Experience (4 units)
- **HUMN 1B** Humanities & the Modern Experience (4 units)

Support Courses: (20 units)
Select four categories from the list below. Complete at least 4 units in each selected category. At least 15 units of support courses must be taken at Foothill College.

1. Art
2. Drama
3. Language (may include ENGL 1B, COMM or foreign language)
4. Literature
5. Music
6. Philosophy

Courses used to meet major requirements in the above areas cannot be used to satisfy any general education requirements. Special problems, special projects, seminars, and tutoring courses may not be used to satisfy the above requirements.

### GENERAL STUDIES/SCIENCE

**AS Degree**

Units required for major: 30

Associate Degree Requirements*
Core Courses: (30 units)
Complete 4 units in each category.
1. Biology
2. Chemistry
3. Physics
4. Mathematics (courses numbered 1 through 99 only)

Courses used to meet major requirements in the above areas can be used to satisfy any graduation general education requirement. Special problems, special projects, seminars, and tutoring courses may not be used to satisfy the above requirements.

### GENERAL STUDIES/SOCIAL SCIENCE

**AA Degree**

Units required for major: 34

Associate Degree Requirements*
Core Courses: (34 units)
Complete any combination of 34 units, from at least four departments.
1. Anthropology
2. Economics
3. Geography
4. History
5. Political Science
6. Psychology
7. Sociology
8. Women's Studies

Courses used to meet major requirements in the above areas can also be used to satisfy general education requirements. Special problems, special projects, seminars, and tutoring courses may not be used to satisfy the above requirements.

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*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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**GEOGRAPHY**

**AA Degree, Certificate of Achievement, Career Certificate**

Units required for major: 33, certificate: 20–35

**Associate Degree Requirements**

**Core Courses:** (17 units)
- GEOG 1 Physical Geography (5 units)
- GEOG 2 Human Geography (4 units)
- GEOG 5 Introduction to Economic Geography (4 units)
- GEOG 10 World Regional Geography (4 units)

**Support Courses:** (8 units)
- ANTH 2A Cultural Anthropology (4 units)
  or ANTH 2B Patterns of Culture (4 units)
- ECON 25 Introduction to the Global Economy (4 units)
- GEOG 9 California Geography (4 units)
- GEOG 12 Introduction to Geographic Information Systems (4 units)
- GEOL 10 Introduction to Physical Geology (5 units)
  or GEOL 11 Historical Geology (5 units)
- HIST 4A History of Western Civilization (4 units)
  or HIST 4AH History of Western Civilization (Honors) (4 units)
- HIST 18 Introduction to Middle Eastern Civilization (4 units)
- HIST 19 History of Asia: China/Japan (4 units)
- HIST 20 History of Russia/Soviet Union (4 units)
- POLI 2 Comparative Government & Politics (4 units)
  or POLI 2H Comparative Government & Politics (Honors) (4 units)

**Elective Courses:** (8 units)
- ANTH 6 Peoples of Africa (4 units)
- HIST 8 History of Latin America (4 units)
- HIST 9 History of Contemporary Europe (4 units)
  or HIST 9H History of Contemporary Europe (Honors) (4 units)
- HIST 18 Introduction to Middle Eastern Civilization (4 units)
- HIST 19 History of Asia: China/Japan (4 units)
- HIST 20 History of Russia/Soviet Union (4 units)
- POLI 2 Comparative Government & Politics (4 units)
  or POLI 2H Comparative Government & Politics (Honors) (4 units)

**Certificate information**

Request certificate forms at bss.foothill.fhda.edu/certificates.

**Certificate of Achievement in Geographic Information Systems**

**(20 units)**
- Required Courses **(14 units)**
  - GEOG 12 Introduction to Geographic Information Systems (4 units)
  - GEOG 52 Advanced Geographic Information Systems (4 units)
  - GEOG 54A Seminar in Specialized Applications of Geographic Information Systems (2 units)
  - GEOG 58 Remote Sensing & Digital Image Processing (2 units)
  - GEOG 59 Cartography, Map Presentation & Design (2 units)

**And Focus Area Courses **(6 units)**

Courses in an approved academic area of the student’s selection.

**Career Certificate for Geographic Information Systems Analyst**

**(35 units)**
- Required Courses **(24 units)**
  - GEOG 12 Introduction to Geographic Information Systems (4 units)
  - GEOG 54A Seminar in Specialized Applications of Geographic Information Systems (4 units)
  - GEOG 58 Remote Sensing & Digital Image Processing (2 units)
  - GEOG 59 Cartography, Map Presentation & Design (2 units)

**GEOLOGY**

**AS Degree**

Units required for major: 63

**Associate Degree Requirements**

**Core Courses:** (63 units)
- CHEM 1A General Chemistry (5 units)
- CHEM 1B General Chemistry (5 units)
- CHEM 1C General Chemistry (5 units)
- GEOL 10 Introductory Geoscience (5 units)
- MATH 49 Precalculus (5 units)
- MATH 1A Calculus (5 units)
- MATH 1B Calculus (5 units)
- MATH 1C Calculus (5 units)
- PHYS 4A General Physics (Calculus) (6 units)
- PHYS 4B General Physics (Calculus) (6 units)
- PHYS 4C General Physics (Calculus) (6 units)

**Recommended Courses**

- MATH 1D Calculus (5 units)
- MATH 2A Differential Equations (5 units)
- MATH 10 Elementary Statistics (5 units)

**GERMAN**

**Certificate of Completion**

German Certificate of Completion (15 units)
- GERM 1 Elementary German (5 units)
- GERM 2 Elementary German (5 units)
- GERM 3 Elementary German (5 units)
**GRAPHICS & INTERACTIVE DESIGN**

**AA Degree, Career Certificate, Skills Certificate**

**Units required for major:** 59, certificate: 12–59

**Associate Degree Requirements**

**Core Courses: (49 units)**
- ART 4A Beginning Drawing (3 units)
  
  Concurrent with ART 4AX Drawing Critique Seminar (1 unit)
- ART 5A Basic Two-Dimensional Design (3 units)
  
  Concurrent with ART 5AX Design Critique Seminar (1 unit)
- ART 20A Color (3 units)
- PHOT 1 Black & White Photography I (4 units)
  or PHOT 5 Introduction to Photography (4 units)
- GID 70 Graphic Design Drawing (4 units)
- GID 1 History of Graphic Design (4 units)
  or ART 36 History of Graphic Design (4 units)
- GID 60 Careers In the Visual Arts (2 units)
  or VART 60 Careers In the Visual Arts (2 units)
- GID 50 Graphic Design Studio I (4 units)
- GID 51 Graphic Design Studio II (4 units)
- GID 52 Graphic Design Studio III (4 units)
- GID 54 Typography (4 units)
- GID 61 Service Learning Projects (4 units)
- GID 62 Portfolio (4 units)

**Elective Courses: (10 units)**
- ART 6 Collage & Composition (3 units)
- ART 19A Painting (3 units)
- ART 20B Color (3 units)
- ART 47 Water Color (3 units)
- CAST 52A Introduction to Macromedia Flash (3 units)
- CAST 86A Introduction to Adobe InDesign (3 units)
- CAST 90A Introduction to Adobe Illustrator (3 units)
- CAST 92A Introduction to Adobe Photoshop (3 units)
- GID 20 Video Production I (4 units)
  or VART 20 Video Production I (4 units)
- GID 38 Printmaking I (4 units)
- GID 39 Printmaking II (4 units)
- GID 40 Digital Printmaking (4 units)
- GID 42 Beginning Etching (3 units)
- GID 44 Beginning Relief Printmaking (3 units)
- GID 46 Beginning Screenprinting (3 units)
  or ART 39A Beginning Screenprinting (3 units)
- GID 48 Monoprinting (3 units)
  or ART 49 Monoprinting (3 units)
- GID 54 Typography (4 units)
- GID 56 Web Site Design (4 units)
- GID 71 Storyboarding (4 units)
- GID 80 Digital Sound, Video & Animation (4 units)
  or MUS 86 Digital Sound, Video & Animation (4 units)
  or VART 86 Digital Sound, Video & Animation (4 units)
- VART 84 Digital Video Editing I (4 units)
- VART 87 Motion Graphics (4 units)

**Certificate Information**

Students are encouraged to take skills certificate courses after completing Graphic Design Studio II. See prerequisite information specific to each class.

**Career Certificate (59 units)**

Same as A.A. degree, except general education courses are not required.

**Web Design Skill Certificate (12 units)**
- GID 71 Storyboarding (4 units)
- GID 54 Typography (4 units)
- GID 56 Web Site Design (4 units)

**Motion Graphics Skill Certificate (12 units)**
- GID 71 Storyboarding (4 units)
- GID 80 Digital Sound, Video & Animation (4 units)
  or MUS 86 Digital Sound, Video & Animation (4 units)
  or VART 86 Digital Sound, Video & Animation (4 units)
- VART 84 Digital Video Editing I (4 units)
- VART 87 Motion Graphics (4 units)

**Video Design Skill Certificate (12 units)**
- GID 20 Video Production I (4 units)
  or VART 20 Video Production I (4 units)
- GID 71 Storyboarding (4 units)
- GID 80 Digital Sound, Video & Animation (4 units)
  or MUS 86 Digital Sound, Video & Animation (4 units)
  or VART 86 Digital Sound, Video & Animation (4 units)

**Book Arts Skill Certificate (12 units)**
- GID 90 Book Arts I (4 units)
- GID 91 Book Arts II (4 units)
- GID 92 Letterpress Printing (4 units)

**Printmaking Skill Certificate (12 units)**
- GID 38 Printmaking I (4 units)
- GID 39 Printmaking II (4 units)
- GID 40 Digital Printmaking (4 units)

**Printmaking Studio Skill Certificate (12 units)**
- GID 42 Beginning Etching (3 units)
- GID 44 Beginning Relief Printmaking (3 units)
- GID 46 Beginning Screenprinting (3 units)
  or ART 39A Beginning Screenprinting (3 units)
- GID 48 Monoprinting (3 units)
  or ART 49 Monoprinting (3 units)

**Illustration Skill Certificate (12 units)**
- GID 72 Cartooning (4 units)
- GID 74 Introduction to Digital Art & Graphics (4 units)
- GID 76 Illustration & Digital Imaging (4 units)
- GID 80 Digital Sound, Video & Animation (4 units)
  or MUS 86 Digital Sound, Video & Animation (4 units)
  or VART 86 Digital Sound, Video & Animation (4 units)
- VART 84 Digital Video Editing I (4 units)

**Art Media Skill Certificate (12 units)**
- ART 6 Collage & Composition (3 units)
- ART 19A Painting (3 units)
- ART 20B Color (3 units)
- ART 47 Water Color (3 units)

**Software Skill Certificate (12 units)**
- CAST 52A Introduction to Macromedia Flash (3 units)
- VART 87 Motion Graphics (4 units)

**A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.**

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CAST 86A Introduction to Adobe InDesign (3 units)
CAST 90A Introduction to Adobe Illustrator (3 units)
CAST 92A Introduction to Adobe Photoshop (3 units)

HELP DESK/TECH SUPPORT

AS Degree, Career Certificate, Skills Certificate

Units required for major: 43, certificate: 10–43

Associate Degree Requirements*
Core Courses: (19 units)
CNET 54A Networking Fundamentals & the TCP/IP Protocol Suite (CCNA I) (5 units)
CNET 75A Microsoft Windows Vista (5 units)
CNET 116A Introduction to PC Electronics & the Command Line (5 units)
CNET 119 Customer Service for IT Professionals (4 units)

Certificate information
All certificates require: English proficiency: ENGL 110, or ESL 25, or equivalent class or test score; Math proficiency: MATH 101 or equivalent; additional classes as listed below.

Level I Certificate (19 units)
Awarded upon the completion of the core courses.

Level II Certificate (A+) (31 units)
Provides the classwork necessary to support the acquisition of A+ certification. A Level I Certificate is required to obtain this certificate as well as the following classes:
CNET 116B Windows Installation Upgrading & Troubleshooting (5 units)
CNET 117Z CNET Internship (2 units)\(^1\)
CNET 60A Microsoft Windows 2003 Server (5 units)

Career Certificate (43 units)
A Level II Certificate is required to obtain this certificate as well as the following classes:
CNET 60B Implementing, Managing & Maintaining a Microsoft Windows Server 2003 Network Infrastructure (5 units)
CNET 54B Routers & Router Configuration (CCNA II) (5 units)
CNET 117Z CNET Internship (2 units)\(^2\)

A+ Preparation Certificate (10 units)
Designed to prepare the student to pass the A+ examination independent of other degree requirements. It is highly recommended that the student complete CNET 54A and 95A prior to beginning this sequence.
CNET 116A Introduction to PC Construction Electronics & the Command Line (5 units)
CNET 116B Windows Installation, Upgrading & Troubleshooting (5 units)

HISTORY

AA Degree

Units required for major: 34

Associate Degree Requirements*
Core Courses: (22 units)
HIST 4A History of Western Civilization (4 units)
or HIST 4AH History of Western Civilization (Honors) (4 units)
HIST 4B History of Western Civilization (4 units)
HIST 4C History of Western Civilization (4 units)
or HIST 4CH History of Western Civilization (Honors) (4 units)
HIST 17A History of the United States (5 units)
HIST 17B History of the United States (5 units)

Support Courses: (8 units)\(^3\)
HIST 8 History of Latin America (4 units)
HIST 9 History of Contemporary Europe (4 units)
or HIST 9H History of Contemporary Europe (Honors) (4 units)
HIST 10 History of California: The Multicultural State (4 units)
HIST 15 History of Mexico (4 units)
HIST 18 Introduction to Middle Eastern Civilization (4 units)
HIST 19 History of Asia: China/Japan (4 units)
HIST 20 History of Russia/Soviet Union (4 units)
HIST 23A Introduction to African History to 1800 (4 units)

Elective Courses: (4 units)
HIST 16 Introduction to Ancient Rome (4 units)
or HIST 16H Introduction to Ancient Rome (Honors) (4 units)
HIST 24 20th Century American Foreign Policy (4 units)

INDIVIDUAL STUDIES—TRANSFER PREPARATION

AA Degree, AS Degree

Units required for major: 72–75

Associate Degree Requirements*
University Transfer Preparation Tracks
CSU Transfer Preparation Track
Complete a minimum of 45 units from the following:\(^4\)
A. Choose one course from COMM 1A, 1B, 2, 3 or 4 (4.5 units)
B. Choose one course from ENGL 1A, or IAH or ESL 26 (5 units)
C. Choose one course from PHIL 1 or ENGL 1B or 1BH (5 units)
D. Choose one course from: CIS 18, MATH 1A, 1B, 1C, 1D, 2A, 2B, 10, 11, 12, 22, 44, 49, 51 (5 units)
E. Complete a minimum of 25.5 additional units, chosen from:\(^5\)
1. ASTR 10A, 10B, 10L; CHEM 1A, 1B, 1C, 10, 12A, 12B, 12C, 25, 30A, 30B, GEOG 1; GEOL 3, 10, 11, 22, 25; MET 10, 10L; OCEN 10; PHYS 2A, 2B, 2C, 4A, 4B, 4C, 4E, 4H, 5, 10, 12.
2. BIOL 1A, 1B, 1C, 1D, 1DL, 9, 9L, 10, 12, 13, 14, 15, 17, 40A, 40B, 40C, 41, 45, HORT 10.
3. ART 1, 2A, 2AH, 2B, 2BH, 2C, 2CH, 2D, 2E, 3, 4A with 4AX, 4C with 4CX, 6, 11, 12, 13, 14, 4SA with 45AX, 66, 80; COMM 24, 30; DRAM 1, 2A, 2B, 2C, (same as ENGL 42A, 42B, 42C), 8, 20A

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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\(^1\) Any combination of CNET 117 (.5 unit), CNET 117X (1 unit), and CNET 117Y (1.5 units) that totals 2 units may be substituted for CNET 117Z.
\(^2\) Any combination of CNET 117 (.5 unit), CNET 117X (1 unit), and CNET 117Y (1.5 units) that totals 2 units may be substituted for CNET 117Z.

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\(^3\) Students may also use courses listed under support courses for electives.
\(^4\) All courses from A–D must be completed with a grade of C or better.
\(^5\) It is strongly recommended that students complete one course from #1 and one course from #2. To satisfy requirements after transfer, one of the above courses should be a laboratory course (underlined).
Complete a minimum of 48 units from the following:

1. One course from: ART 1, 2A, 2AH, 2B, 2C, 3, 4A, 4AX, 4B, 4C, 4CH, 5A, 5B, 5C, 5D, 5E, 6, 10, 12;
   DRAM 1, 2A, 2B, 2C, 3, 4A, 4AX, 4B, 4C, 4D, 6, 10, 12;
   MUS 1, 2A, 2B, 2C, 3, 4A, 4AX, 4B, 4C, 4D, 6, 10, 12;
   Students must complete a minimum of 27 units from one of the following courses: CHIN 2, 3, 4, 5, 6; FREN 2, 3, 4, 5, 6; GER 2, 3, 4, 5, 6; JAPN 2, 3, 4, 5, 6; KORE 2, 3, 4, 5, 6; SPAN 2, 3, 4, 5, 6, 10A. See a counselor for more details.

**Emphases Areas**

Students must complete a minimum of 27 units from one of the four emphases. Science, Math & Engineering (A.S.): Business & Computer Information Systems (A.A. if 51% or more business, A.S. if 51% or more computer information systems); Social Sciences (A.A.); Arts & Letters (A.A.).

**Science, Math & Engineering Emphasis**


**Business & Computer Information Systems Emphasis**


**Social Sciences Emphasis**

ANTH 1A, 2A, 3, 4, 5, 6, 8, 8L, 8LY, 11, 11B, 50; CHILD 11, 50, 50A, 50B, 53NP, 55, 88; COMM 10, 12; ECON 1A, 1B, 9, 25; F A 1: GEOG 2, 5, 9, 10, 12, 52, 54A, 54B, 54S, 59; HIST 4A, 4B, 4C, 4CH, 8, 9, 9H, 10, 15, 16, 16A, 17A, 17B, 18, 19, 20, 23A, 24, 30; PHIL 20A, 20B; POLI 1, 1B, 3, 5, 7, 8, 9, 15, 24; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 43, 49, 55; SOC 1, 10, 11, 15, 20, 21, 23, 30, 40; SOSC 20; WNM 5, 11, 15, 21.

**Arts & Letters Emphasis**

ART 1/1L, 2A, 2B, 2C, 2D, 2E, 3, 4A, 4AX, 4B, 4C, 4CH, 4D, 5A, 5B, 5C, 5D, 5E, 6, 7, 8, 9, 11, 12, 14, 17, 22, 25, 28, 31, 32, 34, 42A, 42B, 42C, 46A, 46B, 46C, 48A, 48B, 48C; F A 1: FREN 4, 5, 39; GER 4, 5; HIST 4A, 4B, 4C; HUMN 1A, 1B, JAPN 4, 5, 6, 33; KORE 4, 5, 6; LING 25; PHIL 2, 4, 8, 20A, 20B, 22, 24, 25; SPAN 4, 5.

**Proven language other than English proficiency equivalent to two years of high school study in the same language with a grade of C or better (official transcripts must be on file) or completion**

1 Students who did not complete ENGL 1B in Section C should complete it for Section E4.

2 Students should complete either POLI 1 or 7 plus HIST 174A or 17B to fulfill the CSU American institutions & Ideals graduation requirements.

3 All courses from A-D must be completed with a grade of C or better.

4 C is strongly recommended, but not required. One course from C is required for students requesting IGETC certification to a CSU campus.

5 At least one of the courses completed for 8B above must include a laboratory.

6 At least one of the courses completed for 8B above must include a laboratory.

83* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiency courses: ENGL 1A or 1S 26, and MATH 103 or 105.

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Program Prerequisites: English proficiency: ENGL 110, ESL 25, or equivalent; the following classes (25 units)

CIS 52C Data Modeling & Relational Database Design (5 units)
CIS 62A Data Warehousing & Data Mining (5 units)
CIS 63A1 Systems Analysis & Design (5 units)
CIS 63B Design & Analysis for Informatics Research (5 units)
MATH 10 Statistics (5 units)

Associate Degree Requirements* (50 units)-
COIN 51 Fundamentals of Internet Technology (5 units)
GID 74 Introduction to Digital Art & Graphics (4 units)
GID 71 Story Boarding (4 units)
CAST 52A Introduction to Macromedia Flash (5 units)
CAST 52B Advanced Macromedia Flash (5 units)
GID 80 Introduction to Digital Sound, Video & Animation (4 units)
CAST 70D 3D Modeling & Animation for Multimedia (4 units)
CAST 70C Interactive Multimedia Project (4 units)

Support Courses: (5 units)
COIN 70A Introduction to Programming Using JavaScript (5 units)
or COIN 70B Using JavaScript (5 units)

Elective Courses: (10 units)
CIS 2 Computers & Society (5 units)
CAST 52B Advanced Macromedia Flash (5 units)
CAST 92A Introduction to Adobe Photoshop (4 units)
CAST 93A PowerPoint: Effective Presentations (4 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
GID 20 Digital Video Production (1 units)
GID 50 Graphic Design Studio I (4 units)
GID 84 Motion Graphics (4 units)
GID 56 Web Site Design (4 units)

Career Certificate (50 units)
English proficiency: ENGL 1A, ESL 26, or equivalent; mathematics proficiency: MATH 103/105 or equivalent; core courses (35 units); programming courses (5 units); electives (10 units).

Skills Certificate (23 units)
GID 60 Careers in the Visual Arts (2 units)
GID 74 Introduction to Digital Art & Graphics (4 units)
CAST 70B Multimedia Design & Authoring (4 units)
CNET 50 Fundamentals of Data Communication & Networking

And two from the following:

- Certificate (26–28 units).
- Requires all the coursework for the Electronic Business Skills Certificate (39–42 units)
- BUSI 53 Survey of International Business (4 units)
- BUSI 22 Principles of Business (4 units)
- BUSI 95 Small Business Management (3 units)
- CIS 60 Introduction to Business Information Systems (5 units)
- And two from the following:
  - BUSI 95 Small Business Management (3 units)
  - BUSI 22 Principles of Business (4 units)
  - BUSI 53 Survey of International Business (4 units)
- Electronic Business Skills Certificate (26–28 units)
- COIN 56 Electronic Business (5 units)
- COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
- COIN 72 Internet Marketing (4 units)
- COIN 58 Electronic Commerce Project (5 units)
- And two from the following:
  - CIS 60 Introduction to Business Information Systems (5 units)
  - BUSI 95 Small Business Management (3 units)
  - BUSI 22 Principles of Business (4 units)
  - BUSI 53 Survey of International Business (4 units)
- Electronic Business Career Certificate (39–42 units)
- Requires all the coursework for the Electronic Business Skills Certificate (26–28 units).
- And two from the following:
  - CIS 60 Introduction to Business Information Systems (5 units)
  - COIN 63 Advanced Topics in Web Publishing (5 units)
- And one from the following:
  - BUSI 22 Principles of Business (4 units)
  - BUSI 53 Survey of International Business (4 units)
  - BUSI 95 Small Business Management (3 units)
- Web Programming Career Certificate (40 units)
- COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
- COIN 63 Advanced Topics in Web Publishing (5 units)
- COIN 70B Using JavaScript (5 units)
- And one from the following:
  - COIN 70A Introduction to Programming Using JavaScript (5 units)
  - COIN 82 Images for the Web (4 units)
- AJAX Career Certificate (35 units)
- COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
- COIN 63 Advanced Topics in Web Publishing (5 units)
- COIN 65 Using Cascaded Style Sheets (CSS) for Design (5 units)
- COIN 78 eXtensible Markup Language (XML) (5 units)
- And one from the following:
  - COIN 70A Introduction to Programming Using JavaScript (5 units)
  - COIN 70B Using JavaScript (5 units)
- Web Development Skills Certificate (25 units)
- COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
- COIN 63 Advanced Topics in Web Publishing (5 units)
- COIN 65 Using Cascaded Style Sheets (CSS) for Design (5 units)
- COIN 70A Introduction to Programming Using JavaScript (5 units)
- COIN 84 Special Web Projects (5 units)
- And three from the following:
  - COIN 76 Web Publishing Tools: Multimedia (5 units)
  - COIN 74A Web Publishing Tools: Dreamweaver (5 units)
  - CAST 52B Advanced Macromedia Flash (5 units)
- Web Administration Career Certificate (40 units)
- COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
- CIS 52A Introduction to Data Management Systems (5 units)
- CIS 68A Introduction to Linux & UNIX (5 units)
- CIS 68C1 Linux & UNIX System Administration (5 units)
- COIN 66 World Wide Web Server Management (5 units)
- CIS 68E Introduction to PERL (5 units)
- COIN 68 Introduction to CGI Using PERL (5 units)
- COIN 91 Introduction to Database-Driven Web Sites (5 units)
  - or CIS 52N MySQL & PHP (5 units)
- And one from the following:
  - COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
  - or CIS 52N MySQL & PHP (5 units)

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**JAPANESE**

**AA Degree, Certificate of Achievement, Certificate of Proficiency**

Units required for major: 30, certificate: 16-43

Associate Degree Requirements*

Core Courses: (30 units)\(^1\)
- JAPN 1 Elementary Japanese (5 units)
- JAPN 2 Elementary Japanese (5 units)
- JAPN 3 Elementary Japanese (5 units)
- JAPN 4 Intermediate Japanese (5 units)
- JAPN 5 Intermediate Japanese (5 units)
- JAPN 6 Intermediate Japanese (5 units)
- JAPN 13A Intermediate Conversation I (3 units)
- JAPN 13B Intermediate Conversation II (3 units)
- JAPN 14A Advanced Conversation I (3 units)
- JAPN 14B Advanced Conversation II (3 units)
- JAPN 25A Advanced Composition & Reading (4 units)
- JAPN 25B Advanced Composition & Reading (4 units)

Support Courses: (5-8 units)
- JAPN 33 Japanese Culture (4 units)
- JAPN 36 Special Projects in Japanese (1 unit) or JAPN 36X Special Projects in Japanese (2 units) or JAPN 36Y Special Projects in Japanese (3 units) or JAPN 36Z Special Projects in Japanese (4 units)

Certificate of Japanese Conversation & Culture (16 units)
- JAPN 13A Intermediate Conversation I (3 units)
- JAPN 13B Intermediate Conversation II (3 units)
- JAPN 14A Advanced Conversation I (3 units)
- JAPN 14B Advanced Conversation II (3 units)
- JAPN 33 Japanese Culture (4 units)

Certificate of Japanese Language Proficiency (30 units)\(^2\)
- JAPN 1 Elementary Japanese (5 units)
- JAPN 2 Elementary Japanese (5 units)
- JAPN 3 Elementary Japanese (5 units)
- JAPN 4 Intermediate Japanese (5 units)
- JAPN 5 Intermediate Japanese (5 units)
- JAPN 6 Intermediate Japanese (5 units)
- JAPN 13A Intermediate Conversation I (3 units)
- JAPN 13B Intermediate Conversation II (3 units)
- JAPN 14A Advanced Conversation I (3 units)
- JAPN 14B Advanced Conversation II (3 units)
- JAPN 25A Advanced Composition & Reading (4 units)
- JAPN 25B Advanced Composition & Reading (4 units)

Certificate of Achievement in Japanese Tutoring (43 units)\(^3\)
- JAPN 1 Elementary Japanese (5 units)

\(^1\) At least 18 of these units must be completed at Foothill College.

\(^2\) At least 18 of these units must be completed at Foothill College.

\(^3\) All the units must be completed at Foothill College. Two extra hours per week of teaching practicum is also required for the minimum of six quarters.

**KOREAN**

**Certificate of Completion**

Certificate Completion (15 units)
- KORE 1 Elementary Korean (5 units)
- KORE 2 Elementary Korean (5 units)
- KORE 3 Elementary Korean (5 units)

**LAW & SOCIETY (PRE-LAW)**

**AA Degree**

Units required for major: 30

Associate Degree Requirements*

Core Courses: (13 units)
- BUSI 18 Business Law I (4 units)
- PHIL 2 Introduction to Social & Political Philosophy (4 units)
- POLI 2 Comparative Government & Politics (4 units) or POLI 2H Comparative Government & Politics (Honors) (4 units)
- SOC 1 Introduction to Sociology (5 units)

Support Courses: (9 units)
- PHIL 8 Ethics (5 units)
- POLI 1 American Government (5 units)
- POLI 15 International Relations/World Politics (4 units) or POLI 15H International Relations/World Politics (Honors) (4 units)
- SOC 40 Aspects of Marriage & Family (4 units)
- BUSI 19 Business Law II (4 units)

Elective Courses: (4 units)\(^4\)
- BUSI 53 Survey of International Business (4 units)
- ECON 1A Principles of Macroeconomics (5 units) or ECON 1B Principles of Microeconomics (5 units)
- ECON 25 Introduction to the Global Economy (4 units)
- HIST 4A History of Western Civilization (4 units) or HIST 4AH History of Western Civilization (Honors) (4 units)

**LEADERSHIP & COMMUNITY SERVICE**

**Certificate of Completion**

Core Courses (9 units)
Select from the following:
- CNSL 85G Assertive Communication (1.5 units)
- CNSL 85GA Advanced Assertive Communication (1.5 units)
- CNSL 86 Leadership Theories & Realities (1 unit)

\(^4\) Students may also use courses listed under support courses for electives.
CNSL 86LX Leadership Lab (1 unit)
CNSL 86LY Leadership Lab (2 units)
CNSL 86LZ Leadership Lab (3 units)
CRLP 70 Self Assessment (3 units)
SOSC 36 Special Projects in Social Science (1 unit)
SOSC 79 Introduction to Community Service (1 unit)

Elective Courses (22 units)
Refer to general education requirements for elective course selections

Field Placement
Three quarters of verified campus and/or community service, minimum 10 hours weekly for a total of 360 hours minimum service.
CNSL 390 Directed Study (non-credit course) for 3 quarters

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**LINGUISTICS**

**AA Degree, Certificate of Completion**

Units required for major: 32, certificate: 12

Associate Degree Requirements*

Core Courses: (32 units)
ENGL 1B Composition, Critical Reading & Thinking (5 units)
or ENGL 1BH Composition, Critical Reading & Thinking (Honors) (5 units)
LING 23/ENGL 23 Modern English: Function & Grammar (4 units)
LING 25/ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25H/ENGL 25H Introduction to Descriptive & Historical Linguistics (Honors) (4 units)
LING 26/ENGL 26 Language, Mind & Society (4 units)
Any three 5-unit, degree-applicable, foreign language courses, including ESL 25 or 26 (5-5-5 units)

Recommended Courses
A second foreign language through course level 3
ANTH 2A Cultural Anthropology (4 units)
ANTH 2B Patterns of Culture (4 units)
COMM 2 Interpersonal Communication (5 units)
COMM 12 Intercultural Communication (4 units)
ENGL 46A Survey of English Literature (4 units)
PSYC 4 Introduction to Psychobiology (4 units)
PSYC 10 Introduction to Social Research (4 units)
or SOC 10 Introduction to Social Research (4 units)
PSYC 14 Childhood & Adolescence (4 units)
SOC 30 Social Psychology (4 units)

Certificate of Completion in Linguistics (12 units)
ENGL 23 Modern English: Function & Grammar (4 units)
or LING 23 Modern English: Function & Grammar (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
or ENGL 25H Introduction to Descriptive & Historical Linguistics (Honors) (4 units)
or LING 25 Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25H Introduction to Descriptive & Historical Linguistics (Honors) (4 units)
ENGL 26 Language, Mind & Society (4 units)
or ENGL 26H Language, Mind & Society (Honors) (4 units)

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**MATHMATICS**

**AS Degree**

Units required for major: 45

Associate Degree Requirements*

Core Courses: (45 units)
MATH 1A Calculus (5 units)
MATH 1B Calculus (5 units)
MATH 1C Calculus (5 units)
MATH 1D Calculus (5 units)
MATH 22 Discrete Mathematics (5 units)
MATH 2A Differential Equations (5 units)
MATH 2B Linear Algebra (5 units)

and any two courses selected from:
PHY 2A General Physics (5 units)
PHY 2B General Physics (5 units)
PHY 2C General Physics (5 units)
or any two courses selected from:
PHY 4A General Physics (Calculus) (6 units)
PHY 4B General Physics (Calculus) (6 units)
PHY 4C General Physics (Calculus) (6 units)
or any two courses selected from:
CHEM 1A General Chemistry (5 units)
CHEM 1B General Chemistry (5 units)
CHEM 1C General Chemistry (5 units)
or any two courses selected from:
CIS 15A Computer Science I: C++ (5 units)
CIS 15B Computer Science II: C++ (5 units)
CIS 15C Computer Science III: C++ (5 units)
CIS 27A Computer Science I: JAVA (5 units)
CIS 27B Computer Science II: JAVA (5 units)
CIS 27C Computer Science III: JAVA (5 units)

Recommended Courses
MATH 10 Elementary Statistics (5 units)
MATH 11 Finite Mathematics (5 units)

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**MUSIC: GENERAL**

**AA Degree**

Units required for major: 45–51

Associate Degree Requirements*

Core Courses: (33-39 units)
MUS 2A Great Composers & Music Masterpieces of Western Civilization (4 units)
MUS 2B Great Composers & Music Masterpieces of Western Civilization (4 units)
MUS 2C Great Composers & Music Masterpieces of Western Civilization (4 units)
MUS 3A Music Theory, Literature & Composition (5 units)
MUS 3B Music Theory, Literature & Composition (5 units)
MUS 3C Music Theory, Literature & Composition (5 units)
MUS 12A Piano (2 units)1

1 This requirement may be waived upon satisfactory completion of the keyboard proficiency exam, administered by the music department chair.
MUS 12B Piano (2 units)
MUS 12C Piano (2 units)
MUSP 41A Applied Music (2 units)
MUSP 41B Applied Music (2 units)
MUSP 41C Applied Music (2 units)

Support Courses: (12 units from any area)
Composition Emphasis (12 units)
MUS 35 Department Honors Project in Composition (8 units)
MUS 56A Songwriting & Composing with Digital Notation (4 units)
MUS 66A Electronic Music & Media: Composing with Pro Tools (4 units)

Music Technology Emphasis (12 units)
MUS 50B Entertainment Law & New Media (4 units)
MUS 66A Introduction to Electronic Music: Songwriting (4 units)
MUS 66B Introduction to Electronic Music: Production (4 units)

Performance Emphasis (12 units)
MUS 62C Jazz & Pop Solo Voice III: Technology & the Singer (1 unit)
MUS 66A Introduction to Electronic Music: Songwriting (4 units)
MUSP 19–40, 42, 45, 49 Ensembles (2 units)
In addition to core ensemble requirement
MUSP 41D Applied Music (2 units)
MUSP 41E Applied Music (2 units)
MUSP 41F Applied Music (2 units)

History & Literature Emphasis (12 units)
MUS 1 Introduction to Music (4 units)
MUS 7 Contemporary Music Styles (4 units)
MUS 7D Contemporary Music Styles: The Beatles in the Culture of Popular Music (4 units)
MUS 7E Contemporary Music Styles: The History of the Blues (4 units)
MUS 8 Music of Multicultural America (4 units)
or MUS 8H Music of Multicultural America (Honors) (4 units)

MUSIC TECHNOLOGY

AA Degree, Career Certificate, Skills Certificate

Units required for major: 48, certificate: 36-48

Associate Degree Requirements*

Core Courses: (36 units)
MUS 50A Music Business (4 units)
MUS 56 Composing & Arranging with Digital Notation (4 units)
MUS 64A Jazz & Swing (4 units)
or MUS 64B Funk, Fusion & Hip Hop (4 units)
or MUS 64C Salsa & Latin Jazz (4 units)
MUS 85A Music & Media: Edison to Hendrix (4 units)
or MUS 85B Music & Media: Hendrix to Hip Hop (4 units)
MUS 85C Music & Media: Edison to Hendrix (4 units)
MUS 86 Introduction to Digital Sound, Video & Animation (4 units)
MUS 56A Songwriting & Composing with Digital Notation (4 units)
MUS 56B Advanced Songwriting & Composing with Digital Notation (4 units)

Support Courses: (12 units)
Music
MUS 64A Jazz & Swing (4 units)
MUS 64B Funk, Fusion & Hip Hop (4 units)
MUS 64C Salsa & Latin Jazz (4 units)
MUS 50B Entertainment Law & New Media (4 units)
MUS 58A Songwriter’s Workshop I (4 units)
MUS 58B Songwriter’s Workshop II (4 units)
MUS 58C Songwriter’s Workshop III (4 units)
MUS 59 Applied Songwriting (4 units)
MUS 60A Producing in the Home Studio I (4 units)
MUS 60B Producing in the Home Studio II (4 units)
MUS 62 Basic Sound Reinforcement (4 units)
MUS 64A Jazz & Swing (4 units)
MUS 64B Funk, Fusion & Hip Hop (4 units)
MUS 64C Salsa & Latin Jazz (4 units)
MUS 56A Songwriting & Composing with Digital Notation (4 units)
MUS 56B Advanced Songwriting & Composing with Digital Notation (4 units)

Performance Emphasis
MUSP 41A Applied Music (4 units)
MUSP 41B Applied Music (4 units)
MUSP 41C Applied Music (4 units)
MUSP 33 Evening Jazz Ensemble (2 units)
MUSP 34 Repertory Jazz Ensemble (2 units)
MUSP 36 Jazz Laboratory Band (2 units)
MUSP 37 String Orchestra (2 units)
MUSP 38 Chamber Orchestra (2 units)
MUSP 39 College Orchestra (2 units)
MUSP 40 Symphony Orchestra (2 units)

Graphic & Interactive Design
GID 54 Typography (4 units)
GID 56 Web Site Design (4 units)
GID 80 Introduction to Digital Sound, Video & Animation (4 units)
GID 84 Motion Graphics (4 units)

Photography
PHOT 1 Black & White Photography I (4 units)
or PHOT 5 Introduction to Photography (4 units)
PHOT 2 Black & White Photography II (4 units)
PHOT 10 History of Photography (4 units)
or PHOT 10 History of Photography (Honors) (4 units)

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1 This requirement may be waived upon satisfactory completion of the keyboard proficiency exam, administered by the music department chair.
2 This requirement may be waived upon satisfactory completion of the keyboard proficiency exam, administered by the music department chair.
**Radio Broadcasting**
RAD 80 Fundamentals of Radio Operation & Station Operation (4 units)
RAD 81 History of Radio 1920-Present (4 units)
RAD 90A News & Information Production (4 units) or RAD 90B News & Information Production (4 units) or RAD 90C News & Information Production (4 units) or RAD 90D News & Information Production (4 units)
RAD 92A Radio Programming & Production (4 units) or RAD 92B Radio Programming & Production (4 units) or RAD 92C Radio Programming & Production (4 units) or RAD 92D Radio Programming & Production (4 units)

**Video Arts**
VART 1 Introduction to Film Studies (4 units)
VART 3 American Cinema (4 units)
VART 20 Digital Video Production I (4 units)
VART 21 Digital Video Production II (4 units)

**Career Certificate (48 units)**
The same as A.A. degree except that general education courses are not required. The following minimum proficiencies are required: ENGL 1A or ESL 26, and MATH 103/105.

**Skills Certificate (36 units)**
Awarded after completion of the music technology core courses.

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**PARAMEDIC**

**AS Degree, Career Certificate**

Units required for major: 79, certificate: 64

**Associate Degree Requirements**

**Certificate information**
All paramedic classes are held at the Foothill College Middlefield Campus, 4000 Middlefield Road, Palo Alto, CA 94303

**Career Certificate Requirements (64 units)**
EMTP 100A Mobile Intensive Care Paramedic Program-I (14 units)
EMTP 100B Mobile Intensive Care Paramedic Program-II (13 units)
EMTP 100C Mobile Intensive Care Paramedic Program-III (12 units)
EMTP 102 Hospital-Clinical Experience (3.5 units)
EMTP 103A Mobile Intensive Care Paramedic Program: Ambulance Field Internship (9 units)
EMTP 103B Mobile Intensive Care Paramedic Program: Ambulance Field Internship (9 units)

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**PERSONAL TRAINER**

**Career Certificate**
Core Courses: (27 units)
P T 51 Basic Nutrition for Sports & Fitness (3 units)
P T 52 Strength Fitness (4 units)
P T 53 Personal Fitness Trainer Internship (6 units)
P T 54 Techniques of Fitness Assessment (4 units)
P T 55 Concepts of Exercise Physiology for Fitness (4 units)
H P 67A Prevention of Athletic Injuries (3 units)
H P 67B Emergency Athletic Injury Care (3 units)

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**PHARMACY TECHNICIAN**

**AS Degree, Certificate of Completion**

Units required for major: 52, certificate: 52

**Associate Degree Requirements**

**Core Courses: (52 units)**
Fall Quarter
PHT 50 Orientation to Pharmacy Technician (3 units)
PHT 51 Basic Pharmaceutics (4 units)
PHT 52A Inpatient Dispensing (3 units)
PHT 53 Ambulatory Pharmacy Practice (4 units)
PHT 54A Dosage Calculations A (3 units)
PHT 60A Retail Clinical (1.5 units)
or PHT 62A Hospital Clinical (1.5 units)

Winter Quarter
PHT 52B Aseptic Technique & IV Preparation (4 units)
PHT 54B Dosage Calculations B (3 units)
PHT 55A Pharmacology (6 units)
PHT 56A Dispensing & Compounding A (4 units) and PHT 60A Retail Clinical (1.5 units) or PHT 60B Retail Clinical (1.5 units) or PHT 62A Hospital Clinical (1.5 units) or PHT 62B Hospital Clinical (1.5 units)

Spring Quarter
PHT 55B Pharmacology B (6 units)
PHT 56B Dispensing & Compounding B (3 units)
PHT 61 Home Healthcare Supplies (3 units)
PHT 60A Retail Clinical (1.5 units)
or PHT 60B Retail Clinical (1.5 units) or PHT 62A Hospital Clinical (1.5 units) or PHT 62B Hospital Clinical (1.5 units)

**PHILoSOPHY**

**AA Degree**

Units required for major: 34

**Associate Degree Requirements**

**Core Courses: (18 units)**
PHIL 1 Critical Thinking (5 units)
PHIL 2 Social & Political Philosophy (4 units)
PHIL 4 Introduction to Philosophy (4 units)
PHIL 8 Ethics (5 units)
PHIL 20A History of Philosophy from Socrates to St. Thomas (4 units)
PHIL 20B History of Philosophy from the Renaissance to Kant (4 units)

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* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
PHOTOGRAPHY & DIGITAL IMAGING

AA Degree, Certificate of Completion, Certificate of Proficiency, Career Certificate, Skills Certificate

Units required for major: 44, certificate: 12–44

Associate Degree Requirements*

Core Courses: (24 units)
PHOT 1 Black & White Photography I (4 units)
PHOT 5 Introduction to Photography (4 units)
PHOT 10 History of Photography (4 units)
PHOT 65A Digital Photography I (4 units)
ART 5A Basic Two-Dimensional Design (3 units)
PHOT 57A Photographic Portfolio Development (4 units)
PHOT 57B Professional Practices in Photography (4 units)

Select Option #1 or Option #2:

Option #1: Traditional Photography (12 units)
PHOT 2 Black & White Photography II (4 units)
PHOT 50 Black & White Photography III (4 units)
PHOT 70 Introduction to Color Photography (4 units)
PHOT 53 Introduction to Color Slides (4 units)

And minimum of 8 units of elective courses listed below to total at least 44 units.

Option #2: Digital Imaging (12 units)
PHOT 65B Digital Photography II (4 units)
PHOT 65C Digital Photography III (4 units)
PHOT 71 The Photographic Book (4 units)

And minimum of 8 units of elective courses listed below to total at least 44 units.

Elective Courses (8 units)
ART 6 Collage & Composition (3 units)

Support Courses: (8 units)
ANTH 2A Cultural Anthropology (4 units)
HIST 4A Western Civilization (4 units)
PHIL 7 Symbolic Logic (4 units)
PHIL 24 Comparative World Religions: East (4 units)
PHIL 25 Comparative World Religions: West (4 units)

Elective Courses: (8 units)¹
HIST 4B History of Western Civilization (4 units)
HIST 4C History of Western Civilization (4 units)
HIST 8 History of Latin America (4 units)
HIST 9 History of Contemporary Europe (4 units)
HIST 18 Middle Eastern Civilization (4 units)
HIST 19 History of Asia: China/Japan (4 units)
ENGL 26 Language, Mind & Society (4 units)

Concurrent with ART 5AX Design Critique Seminar (1 Unit)

PHIL 3 Introduction to Political Philosophy (5 units)
PHIL 3H Introduction to Political Philosophy (Honors) (5 units)

POLI 3 Introduction to Political Philosophy (5 units)

Policies & Procedures* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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¹ Students may also use courses listed under support courses for electives.

2 Maximum of 3 units of laboratory may be used toward an A.A. degree or certificate.
3 Maximum of 3 units of laboratory may be used toward an A.A. degree or certificate.
4 Maximum of 3 units of laboratory may be used toward an A.A. degree or certificate.
5 Maximum of 3 units of laboratory may be used toward an A.A. degree or certificate.
Certificate of Completion: Digital Imaging (32 units)
PHOT 1 Black & White Photography I (4 units)
or PHOT 5 Introduction to Photography (4 units)
PHOT 10 History of Photography (4 units)
PHOT 65A Digital Photography I (4 units)
PHOT 65B Digital Photography II (4 units)
PHOT 65C Digital Photography III (4 units)
PHOT 71 The Photographic Book (4 units)
PHOT 75 Introduction to Computer Graphics (4 units)
ART 5A Basic Two-Dimensional Design (3 units)
concurrent with ART 5AX Design Critique Seminar (1 Unit)

Certificate of Completion: Photo Criticism (16 units)
PHOT 5 Introduction to Photography (4 units)
PHOT 8 Photography of a Multicultural America (4 units)
PHOT 10 History of Photography (4 units)
PHOT 11 Contemporary Issues in Photography (4 units)

Skills Certificate: Photographic Lab Technician (13 units minimum)
PHOT 1 Black & White Photography I (4 units)
PHOT 2 Black & White Photography II (4 units)
PHOT 70 Introduction to Color Photography (4 units)
OR PHOT 53 Introduction to Color Slides (4 units)
PHOT 1LX General Photography Production Laboratory (1 unit)
or PHOT 150,X,Y,Z Photography Production Laboratory (1 unit maximum applicable)
or PHOT 180,X,Y,Z Photographic Practices or Equivalent (1 unit maximum applicable)

PHYSICAL EDUCATION & HUMAN PERFORMANCE

AA Degree

Units required for major: 32

Associate Degree Requirements*
Core Courses: (32 units)
H P 1 Introduction to Physical Education (4 units)
H P 37 Theories & Techniques of Coaching Sports (3 units)
or H P 70 Topics in Dance History (4 units)
H P 67B Emergency Athletic Injuries (3 units)
BIOL 10 General Biology (5 units)
or BIOL 14 Human Biology (5 units)
SOC 21 Psychology of Women & Sex Differences (4 units)
or PSYC 22 Psychology of Prejudice (4 units)
H P 48 Concepts of Physical Fitness & Wellness (4 units)
PSYC 55 Sports Psychology (4 units)

and 6 units of any Human Performance activity courses

Elective Courses:
H P 67A Prevention of Athletic Injuries (3 units)
H P 67C Treatments & Rehabilitation of Athletic Injuries (3 units)
BIOL 40A Functional Anatomy & Physiology (5 units)
BIOL 40B Functional Anatomy & Physiology (5 units)
BIOL 40C Functional Anatomy & Physiology (5 units)

PHYSICS

AS Degree

Units required for major: 59

Associate Degree Requirements*
Core Courses: (59 units)
CHEM 1A General Chemistry (5 units)
CHEM 1B General Chemistry (5 units)
MATH 1B Calculus (5 units)
MATH 1C Calculus (5 units)
MATH 1D Calculus (5 units)
MATH 2A Differential Equations (5 units)
MATH 2B Linear Algebra (5 units)
PHYS 4A General Physics-Calculus (6 units)
PHYS 4B General Physics-Calculus (6 units)
PHYS 4C General Physics-Calculus (6 units)
PHYS 4D General Physics-Calculus (6 units)

POLITICAL SCIENCE

AA Degree

Units required for major: 35

Associate Degree Requirements*
Core Courses: (18 units)
POLI 1 American Government (5 units)
POLI 2 or 2H Comparative Government & Politics (4 units)
POLI 3 or 3H Introduction to Political Philosophy/Political Theory (5 units)
POLI 15 or 15H International Relations (4 units)

Support Courses: (9 units)
ECON 1A Principles of Macroeconomics (5 units)
HIST 9 or 9H History of Contemporary Europe (4 units)
HIST 17A History of the United States to 1877 (5 units)
or HIST 17B History of the United States from 1877 (5 units)
POLI 5 Russian & East European Politics (4 units)
POLI 7 American Government from a Black Perspective (5 units)
POLI 8 Post World War II Germany (4 units)

Elective Courses: (8 units)²
ECON 25 Introduction to the Global Economy (4 units)
HIST 8 History of Latin America (4 units)
HIST 18 Introduction to Middle Eastern Civilization (4 units)
HIST 19 History of Asia: China/Japan (4 units)
HIST 20 History of Russia & The Soviet Union (4 units)
PHIL 2 Social & Political Philosophy (5 units)
SOC 15 Law & Society (4 units)

¹ Plus 50 hours of work experience verified by employer or volunteer supervisor.
² Students may also use courses listed under support courses for electives.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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**PRIMARY CARE ASSOCIATE**

**AS Degree, Certificate of Proficiency**

Units required for major: 86, certificate: 86

**Associate Degree Requirements**

Core Courses: (86 units)

Curriculum

The program is 16 months in length, presented in five quarters (with a possibility of extending into a sixth quarter) and leads to a Certificate of Proficiency. All courses must be taken in sequence.

**Fall Quarter**

- PC 80 Family Medicine Didactic (14 units)
- PC 190Z Directed Studies in Primary Care Medicine (2 units)
- PC 80P Family Medicine Clinical (5 units)

**Winter Quarter**

- PC 81 Family Medicine Didactic (8 units)
- PC 81P Family Medicine Clinical (8 units)

**Spring Quarter**

- PC 82 Family Medicine Didactic (8 units)
- PC 82P Family Medicine Clinical (9 units)

**Summer Session**

- PC 83 Family Medicine Didactic (6 units)
- PC 83P Family Medicine Clinical (9 units)

**Fall Quarter (5th Quarter)**

- PC 84 Family Medicine Didactic (8 units)
- PC 84P Family Medicine Clinical (9 units)

**Support Courses**

- PC 85 Special Clinical Projects (4 units)
- PC 85X Special Clinical Projects (5 units)
- PC 85Y Special Clinical Projects (6 units)
- PC 86 Special Didactic Projects (4 units)
- PC 86X Special Didactic Projects (5 units)
- PC 86Y Special Didactic Projects (6 units)

**PSYCHOLOGY**

**AA Degree**

Units required for major: 33

**Associate Degree Requirements**

Required Course:

- PSYC 1 General Psychology (5 units)

Core Courses: (16 units)

- MATH 10 Elementary Statistics (5 units)
- PSYC 10 Introduction to Social Research (4 units)
- PSYC 14 Childhood & Adolescence (4 units)

**RADIATION THERAPY**

**AS Degree**

Units required for major: 104

**Associate Degree Requirements**

Core Courses: (104 units)

**First Year (55.5 units)**

**Summer Session**

- RTT 57 Orientation to Radiation Therapy Technology (2 units)

**Fall Quarter**

- RTT 58A Fundamentals of Radiologic Technology for Radiation Therapy (3 units)
- RTT 59A Technical Radiation Oncology (3 units)
- RTT 71A Clinical Practicum (24 clinical hours per week) (4.5 units)
- BIOL 40A Functional Anatomy & Physiology (4 units)

**Winter Quarter**

- RTT 58B Fundamentals of Radiologic Technology for Radiation Therapists (3 units)
- RTT 59B Radiation Oncology & Pathology (3 units)
- RTT 71B Clinical Practicum (24 clinical hours per week) (4.5 units)
- BIOL 40B Functional Anatomy & Physiology (4 units)

**Spring Quarter**

- RTT 61A Radiation Therapy Physics (3 units)
- RTT 72A Dosimetry I (3 units)
- RTT 71C Clinical Practicum (24 clinical hours per week) (4.5 units)
- BIOL 40C Functional Anatomy & Physiology (4 units)

**Summer Session (8 weeks)**

- RTT 60 Patient Care in Radiation Oncology (2 units)
- RTT 71D Clinical Practicum (32 clinical hours per week) (3 units)

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1. Students attend classes at Stanford Mondays through Thursdays. Fridays are spent in preceptorships. Each week a different system is highlighted with lectures that focus on common clinical problems.

2. Students are in preceptorships for 12 days per month and attend classes one week/month. Students learn the diagnosis and management of common problems covered in lectures.

3. Students continue to learn about management of acute and chronic primary health care problems.

4. Students learn to recognize and initiate treatment for life threatening emergencies, and participate in the care of hospitalized and surgical patients.

5. This quarter is an integration of medical conditions presented in previous quarters with a continued emphasis on family medicine.

6. Courses offered only by special arrangement.

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*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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## Second Year (48.5 units)

### Fall Quarter
- RTT 64A Clinical Radiation Oncology (4 units)
- RTT 72B Dosimetry II (3 units)
- RTT 73A Clinical Practicum (32 clinical hours per week) (7 units)

### Winter Quarter
- RTT 64B Clinical Radiation Oncology (4 units)
- RTT 61B Radiation Therapy Physics II (3 units)
- RTT 73B Clinical Practicum (32 clinical hours per week) (7 units)

### Spring Quarter
- RTT 64C Clinical Radiation Oncology (4 units)
- RTT 62B Radiation Biology (3 units)
- RTT 73C Clinical Practicum (32 clinical hours per week) (7 units)

### Summer Session (6 weeks)
- RTT 73D Clinical Practicum (32 clinical hours per week) (3.5 units)
- RTT 63C Radiation Oncology III (3 units)

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**RADIO BROADCASTING**

### AA Degree, Career Certificate

Units required for major: 37, certificate: 37

**Associate Degree Requirements***

**Core Courses:** (22 units)
- RAD 80 Fundamentals of Radio Operations (3 units)
- RAD 81 History of Radio 1920 - Present (4 units)
- RAD 90A News & Information (3 units)

**And any 4 of the following courses:**
- RAD 90B, C, D News & Information (3 units each)
- RAD 91A, B, C, D Sales & Marketing (3 units each)
- RAD 92A, B, C, D Programming & Production (3 units each)
- RAD 93A, B, C, D Industry Relations & Engineering (3 units each)

**Support Courses:** (15 units minimum)
All 15 units must come from one emphasis

**Broadcast Performance**
- MUS 1 Introduction to Music (4 units)
- MUS 7 Contemporary Musical Styles (4 units)
- MUS 7D Contemporary Musical Styles (4 units)
- MUS 7E Contemporary Musical Styles (4 units)
- MUS 8 Music of Multicultural America (4 units)
  - or MUS 8H Music of Multicultural America (Honors) (4 units)
- MUS 80A Recording Arts I: Sound Reinforcement (4 units)
- COMM 1A Public Speaking (4.5 units)
- COMM 24 Readers’ Theatre (4.5 units)
- COMM 30 Oral Interpretation of Literature (4.5 units)
- COMM 46 Voice & Diction (4 units)

**Broadcast Journalism**
- CIS (one 4-unit CIS course) (4 units)
- ENGL 4 Journalism (4 units)
- COMM 1A Public Speaking (4.5 units)
- COMM 46 Voice & Diction (4 units)
- COMM 55 Professional & Career Communication (4 units)

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**Broadcast Business Sales**
- ACTG 1A Financial Accounting I (5 units)
- ADVT 57 Principals of Advertising (4 units)
  - or BUSI 57 Principals of Advertising (4 units)
- BUSI 59 Principles of Marketing (4 units)
- BUSI 97 Management Seminar (.5–3 units)
- CIS (one 4-unit CIS course) (4 units)

**Broadcast Business Management**
- ACTG 1A Financial Accounting I (5 units)
- ADVT 57 Principals of Advertising (4 units)
  - or BUSI 57 Principals of Advertising (4 units)
- BUSI 22 Principals of Business (4 units)
- BUSI 97 Management Seminar (.5–3 units)
- CIS (one 4-unit CIS course) (4 units)
- MUS 50A Introduction to Music Business (4 units)
- MUS 50B Entertainment Law & New Media (4 units)
- COMM 1A Public Speaking (4.5 units)
- COMM 55 Professional & Career Communication (4.5 units)

**Career Certificate (37 units)**
Same as A.A. degree, except general education courses are not required.

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**RADIOLOGIC TECHNOLOGY**

### AS Degree

Units required for major: 91.5

**Associate Degree Requirements***

**Core Courses:** (91.5 units)
All courses must be completed in sequence with a grade of C or better.

**First Year**

### Summer Session
- RT 50 Orientation to Radiation Science Technology (2 units)
- RT 53 Orientation to Radiologic Technology (1 unit)

### Fall Quarter
- RT 54 Basic Patient Care for Imaging Technology (2 units)
- RT 51A Fundamentals of Radiologic Technology (3 units)
- RT 52A Principles of Radiologic Technology (3 units)
- RT 53A Applied Radiographic Technology (1.5 units)
- RT 53AL Applied Radiographic Technology (1 unit)

### Winter Quarter
- RT 54B Law & Ethics in Medical Imaging (2 units)
- RT 51B Fundamentals of Radiologic Technology (3 units)
- RT 52B Principles of Radiologic Technology (3 units)
- RT 53B Applied Radiologic Technology (1.5 units)
- RT 53BL Applied Radiologic Technology (1 unit)

### Spring Quarter
- RT 51C Fundamentals of Radiologic Technology (3 units)
- RT 52C Principles of Radiologic Technology (3 unit)
- RT 53C Applied Radiologic Technology (1.5 units)
- RT 53CL Applied Radiologic Technology (1 unit)
- RT 54C Imaging Pathology (3 units)

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*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105. Foothill College 2007–2008  www.foothill.edu**
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

PSYC 1 General Psychology (5 units)
Summer Session (8 weeks)
R T 72 Venipuncture (2 units)
R T 64 Fluoroscopy (3 units)
R T 53D Radiographic Clinical Practicum (5 units)
Second Year
Fall Quarter
R T 62A Radiographic Positioning (3 units)
R T 63A Radiographic Clinical Practicum (7.5 units)
R T 52D Principles of Radiologic Technology (2 units)
Winter Quarter
R T 61B Radiology Research Project (1 unit)
R T 62B Special Procedures & Equipment (3.5 units)
R T 63B Radiographic Clinical Practicum (7.5 units)
R T 65 Mammography (3 units)
Spring Quarter
R T 62C Advanced Radiographic Principles (3 units)
R T 63 Advanced Radiographic Principles (3 units)
R T 63C Radiographic Clinical Practicum (7.5 units)

REAL ESTATE
AA Degree, Career Certificate
Units required for major: 32, certificate: 12–32
Associate Degree Requirements* Core Courses: (32 units)
BUSI 18 Business Law (4 units)
R E 50 Real Estate Principles (4 units)
R E 51 Real Estate Practices (4 units)
R E 52A Legal Aspects of Real Estate I (4 units)
R E 53 Real Estate Finance (4 units)
R E 54 Real Estate Economics (4 units)
R E 56A Real Estate Appraisal I (4 units)
R E 59 Property Management (4 units)
Real Estate Broker Career Certificate (32 units)1 Required Courses (32 units)
R E 50 Real Estate Principles (4 units)
R E 51 Real Estate Practices (4 units)
R E 52A Legal Aspects of Real Estate I (4 units)
R E 53 Real Estate Finance (4 units)
R E 54 Real Estate Economics (4 units)
R E 56A Real Estate Appraisal I (4 units)
R E 59 Property Management (4 units)
BUSI 18 Business Law (4 units)
Real Estate Salesperson Career Certificate (12 units)2 Required Courses (8 units)
R E 50 Real Estate Principles (4 units)
R E 51 Real Estate Practices (4 units)
Support Courses (4 units)
R E 52A Legal Aspects of Real Estate I (4 units)
R E 53 Real Estate Finance (4 units)
R E 54 Real Estate Economics (4 units)
R E 56A Real Estate Appraisal I (4 units)
R E 59 Property Management (4 units)
BUSI 18 Business Law (4 units)

RESPIRATORY THERAPY
AS Degree
Units required for major: 104
Associate Degree Requirements* Core Courses: (104 units)
First Year
Fall Quarter
RSPT 50A Respiratory Therapy Procedures (4.5 units)
RSPT 51A Introduction to Respiratory Anatomy & Physiology (2 units)
RSPT 52 Applied Science for Respiratory Therapy (3 units)
RSPT 54 Orientation to Respiratory Care (1.5 units)
RSPT 55A Directed Studies (.5 unit)
BIOL 40A Functional Anatomy & Physiology (5 units)
Winter Quarter
RSPT 50B Introduction to Procedures & Hospital Orientation (6 units)
RSPT 53A Introduction to Respiratory Pharmacology (2 units)
RSPT 55B Directed Studies (.5 unit)
BIOL 40B Functional Anatomy & Physiology (5 units)
BIOL 41 Microbiology (6 units)
Spring Quarter
RSPT 50C Therapeutics & Introduction to Mechanical Ventilation (4.5 units)
RSPT 51B Respiratory Physiology (3 units)
RSPT 51C Patient Assessment & Pulmonary Disease (4.5 units)
RSPT 55C Directed Studies (.5 unit)
BIOL 40C Functional Anatomy & Physiology (5 units)
Summer Session (6 weeks)
RSPT 61A Adult Mechanical Ventilation (4 units)
RSPT 55D Directed Studies (.5 unit)
RSPT 70A Clinical Rotation (2 units)
Second Year
Fall Quarter
RSPT 60A Cardiology for Respiratory Therapists (2 units)
RSPT 61B Neonatal & Pediatric Intensive Care (4 units)
RSPT 53B Advanced Respiratory Therapy Pharmacology (2 units)
RSPT 55E Directed Studies (.5 unit)
RSPT 70B Clinical Rotation (6 units)

1 Awarded after completion of the core courses (32 units). This certificate meets the California Department of Real Estate course requirements for a broker license.
2 This certificate meets the California Department of Real Estate course requirements for a salesperson license.
PSYC 1 General Psychology (5 units)

Winter Quarter
RSPT 60B Advanced Cardiac Life Support (2 units)
RSPT 65A Advanced Pathophysiology & Patient Management (3 units)
RSPT 65 Computer Clinical Simulations (.5 unit)
RSPT 55F Directed Studies (.5 unit)
RSPT 70C Clinical Rotation (6 units)
RSPT 61C Home & Rehabilitative Respiratory Care (2 units)

Spring Quarter
RSPT 60C Pulmonary Diagnostics (3 units)
RSPT 62 Management of Respiratory Therapy Services (1 unit)
RSPT 55G Directed Studies (.5 unit)
RSPT 70D Clinical Rotation (6 units)

Support Courses: (see below)
Optional
RSPT 71, 72, 73A–G Extended Clinical Internships (offered each quarter)
RSPT 190, 190X, 190Y, 190Z Directed Studies (.5–2 units)

SOCILOGY

AA Degree, Certificate of Achievement, Certificate of Proficiency

Units required for major: 30, certificate: 13-26

Associate Degree Requirements*

Required Course:
SOC 1 Introduction to Sociology (5 units)

Core Courses: (12 units)
SOC 8 Popular Culture (4 units)
SOC 11 Introduction to Social Welfare (5 units)
SOC 15 Law & Society (4 units)
SOC 19 Alcohol & Drug Abuse (4 units)
SOC 20 Major Social Problems (4 units)
SOC 23 Race & Ethnic Relations (4 units)
SOC 30 Social Psychology (4 units)
SOC 40 Aspects of Marriage & Family (4 units)

Support Courses: (13 units)
ANTH 2A Cultural Anthropology (4 units)
ECON 1A Principles of Macroeconomics (5 units)
GEOG 10 World Regional Geography (4 units)
HIST 4A History of Western Civilization (4 units)
or HIST 4AH History of Western Civilization (Honors) (4 units)
or HIST 4B History of Western Civilization (4 units)
or HIST 4C History of Western Civilization (4 units)
or HIST 4CH History of Western Civilization (Honors) (4 units)
MATH 10 Elementary Statistics (5 units)
PHIL 1 Critical Thinking (5 units)
POLI 7 American Government from a Black Perspective (5 units)
PSYC 22 Psychology of Prejudice (4 units)
WMN 5 Introduction to Women's Studies (4 units)
WMN 21 Psychology of Women: Sex & Gender Differences (4 units)

Certificate of Proficiency in Sociology: Social Welfare (26 units)

Required Courses (9 units)
SOC 11 Introduction to Social Welfare (5 units)
SOC 19 Alcohol & Drug Abuse (4 units)

Core Courses (12 units)
SOC 1 Introduction to Sociology (5 units)
SOC 15 Law & Society (4 units)
SOC 20 Major Social Problems (4 units)
SOC 23 Race & Ethnic Relations (4 units)
SOC 40 Aspects of Marriage & Family (4 units)

Support Courses (5 units)
BUSI 18 Business Law (4 units)
HLTH 21 Health Education (3 units)
PSYC 22 Psychology of Prejudice (4 units)
SOC 8 Popular Culture (4 units)
SOC 30 Social Psychology (4 units)
SOSC 36 Special Projects (1–4 units)
COMM 12 Intercultural Communication (4 units)
WMN 5 Introduction to Women's Studies (4 units)

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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SPANISH

AA Degree, Certificate of Achievement, Certificate of Completion, Certificate of Proficiency

Units required for major: 30, certificate: 12-30

Associate Degree Requirements*
Core Courses: (30 units)
- SPAN 1 Elementary Spanish (5 units)
- SPAN 2 Elementary Spanish (5 units)
- SPAN 3 Elementary Spanish (5 units)
- SPAN 4 Intermediate Spanish (5 units)
- SPAN 5 Intermediate Spanish (5 units)
- SPAN 6 Intermediate Spanish (5 units)
- SPAN 13A Intermediate Conversation I (3 units)
- SPAN 13B Intermediate Conversation II (3 units)
- SPAN 14A Advanced Conversation I (3 units)
- SPAN 14B Advanced Conversation II (3 units)
- SPAN 25A Advanced Composition & Reading (4 units)
- SPAN 25B Advanced Composition & Reading (4 units)

Support Courses: (5 units)
- SPAN 10A Spanish for Heritage Speakers (5 units)
- SPAN 39 Contemporary Spanish Literature in Translation (4 units)

Certificate of Achievement in Spanish Conversation (12 units)
- SPAN 13A Intermediate Conversation I (3 units)
- SPAN 13B Intermediate Conversation II (3 units)
- SPAN 14A Advanced Conversation I (3 units)
- SPAN 14B Advanced Conversation II (3 units)

Certificate of Spanish Language Completion (15 units)
- SPAN 1 Elementary Spanish (5 units)
- SPAN 2 Elementary Spanish (5 units)
- SPAN 3 Elementary Spanish (5 units)

Certificate of Spanish Language Proficiency (30 units)
- SPAN 1 Elementary Spanish (5 units)
- SPAN 2 Elementary Spanish (5 units)
- SPAN 3 Elementary Spanish (5 units)
- SPAN 4 Intermediate Spanish (5 units)
- SPAN 5 Intermediate Spanish (5 units)
- SPAN 6 Intermediate Spanish (5 units)
- SPAN 13A Intermediate Conversation I (3 units)
- SPAN 13B Intermediate Conversation II (3 units)

SPECIAL EDUCATION

AA Degree, Career Certificate

Units required for major: 35, certificate: 27

Associate Degree Requirements*
Core Courses: (27 units)
- SPED 57 Working with Special Populations (3 units)
- SPED 61 Introduction to Disabilities (4 units)
- SPED 62 Psychological Aspects of Disability (4 units)

Support Courses: (8 units)
- BIOL 14 Human Biology (5 units)
- BIOL 40A Human Anatomy & Physiology (5 units)
- or BIOL 40B Human Anatomy & Physiology (5 units)
- or BIOL 40C Human Anatomy & Physiology (5 units)
- BIOL 45 Introduction to Human Nutrition (4 units)
- EDUC 50 Principles of Education: The Teaching Challenge (4 units)
- HLTH 5 Emergency Response (5 units)
- MATH 10 Elementary Statistics (5 units)
- PSYC 1 General Psychology (5 units)
- PSYC 25 Introduction to Abnormal Psychology (4 units)
- COMM 1A Public Speaking (4.5 units)
- COMM 2 Interpersonal Communication (5 units)
- SPED 50 Introduction to Adaptive Fitness Techniques (3 units)
- SPED 52 Intergenerational Adult Health & Development (3 units)
- SPED 54 Principles of Therapeutic Exercise (3 units)
- SPED 55 Geriatric Fitness Concepts (3 units)
- SPED 56 Functional Aspects of Adaptive Fitness (3 units)
- SPED 59 Selected Topics in Special Education (2 units)
- SPED 65 Fundamentals of Attention Deficit Disorder (4 units)
- SPED 67Y Adaptive Fitness Directed Study (3 units)
- SPED 70 Principles of Therapeutic Aquatic Exercise (3 units)
- SPED 71 Special Topics in the Field of Fitness Therapy (3 units)
- SPED 72 Stress, Wellness & Coping (3 units)

Special Education Paraprofessional Career Certificate (27 units)
- SPED 57 Working with Special Populations (3 units)
- SPED 61 Introduction to Disabilities (4 units)
- SPED 62 Psychological Aspects of Disability (4 units)
- SPED 63 Learning Disabilities (4 units)
- SPED 64 Disability & the Law (4 units)
- SPED 66 Disability & Technology Access (4 units)
- SPED 69 Special Education Strategies & Practicum (4 units)

THEATRE ARTS/DRAMA

AA Degree, Certificate of Completion

Units required for major: 59, certificate: 59

Associate Degree Requirements*
Core Courses: (31 units)
- DRAM 2A Introduction to Dramatic Literature (4 units)
- DRAM 2B Introduction to Dramatic Literature (4 units)
- DRAM 2C Introduction to Dramatic Literature (4 units)
- DRAM 20A Beginning Acting (3 units)
- DRAM 20B Intermediate Acting (3 units)
- DRAM 20C Advanced Acting I (3 units)
- DRAM 20D Advanced Acting II (3 units)
- DRAM 20E Advanced Acting III (3 units)
- DRAM 71 Fundamentals of Stage Management (4 units)

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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**THEATRE TECHNOLOGY**

**AA Degree, Career Certificate, Skills Certificate**

Units required for major: 46, certificate: 28–46

**Associate Degree Requirements**

<table>
<thead>
<tr>
<th>Core Courses: (22 units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAM 1 Theatre Arts Appreciation (4 units)</td>
</tr>
<tr>
<td>DRAM 20A Beginning Acting (3 units)</td>
</tr>
<tr>
<td>DRAM 21 Introduction to Technical Theatre (1 unit)</td>
</tr>
<tr>
<td>DRAM 21A Scenery &amp; Property Construction (3 units)</td>
</tr>
<tr>
<td>DRAM 72 Drafting for the Theatre, Film &amp; Television (4 units)</td>
</tr>
<tr>
<td>DRAM 49 Rehearsal &amp; Performance (3 units)</td>
</tr>
<tr>
<td>GID 74 Introduction to Digital Art &amp; Graphics (4 units)</td>
</tr>
</tbody>
</table>

**Support Courses: (24 units maximum)**

Choose 24 units from only one of the areas of emphasis below:

**Emphasis in Stage Management**
- DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)
- DRAM 21B Intermediate Scenery & Property Construction (3 units)
- DRAM 21C Advanced Scenery & Property Construction (3 units)
- DRAM 49X Rehearsal & Performance (4 units)
- or DRAM 49Y Rehearsal & Performance (5.5 units)
- DRAM 71 Fundamentals of Stage Management (4 units)
- DRAM 72 Drafting for the Theatre, Film & Television (4 units)
- CWE 51 Occupational Work Experience (1–8 units)

**Emphasis in Stage & Shop Technology**
- DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)
- DRAM 21B Intermediate Scenery & Property Construction (3 units)
- DRAM 21C Advanced Scenery & Property Construction (3 units)
- DRAM 42A Introduction to Scene Design (4 units)
- DRAM 72 Drafting for Theatre, Film & Television (4 units)
- DRAM 73 Technology in Wood & Fabric (4 units)
- DRAM 78 Technology in Steel & Related Materials (4 units)
- CWE 51 Occupational Work Experience (1–8 units)

**Emphasis in Costume Technology**
- DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)
- DRAM 21B Intermediate Scenery & Property Construction (3 units)
- DRAM 21C Advanced Scenery & Property Construction (3 units)
- DRAM 42A Introduction to Scene Design & Painting (4 units)
- DRAM 75 Introduction to Fashion & Costume Construction (4 units)
- DRAM 77 Introduction to Lighting Design & Technology (4 units)

**Emphasis in Stage Lighting Technology**
- DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)
- DRAM 21B Intermediate Scenery & Property Construction (3 units)
- DRAM 21C Advanced Scenery & Property Construction (3 units)
- DRAM 42A Introduction to Scene Design & Painting (4 units)
- DRAM 72 Drafting for Theatre, Film & Television (4 units)
- DRAM 77 Introduction to Lighting Design & Technology (4 units)

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* Master courses are offered every quarter are taught on an approximate three-year cycle. They are designed to give a thorough and comprehensive investigation of a specific area of the actor’s training. These courses may also be used as electives.

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*A minimum of 90 units required for the A.A./A.S. Degree, to include required course, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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CWE 51 Internship in Lighting Technology (1–8 units)
 or CWE 52 Internship in Lighting Technology (1–8 units)

**Emphasis in Scenic Design & Painting Assistant**
DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)
DRAM 21B Intermediate Scenery & Property Construction (3 units)
DRAM 21C Advanced Scenery & Property Construction (3 units)
DRAM 42A Introduction to Scene Design & Painting (4 units)
DRAM 72 Drafting for Theatre, Film & Television (4 units)
DRAM 73 Technology in Wood & Fabric (4 units)
DRAM 79 Model Building for the Theatre, Film & Television (4 units)
CWE 51 Internship in Scenic Design (1–8 units)
 or CWE 52 Internship in Scenic Design (1–8 units)

**Career Certificate (46 units)**
Same as A.A. degree, except general education courses are not required.

**Stage Management Skills Certificate (28 units)**
DRAM 21 Introduction to Technical Theatre (1 unit)
DRAM 21A Scenery & Property Construction (3 units)

And 24 units minimum from the following:
DRAM 20A Beginning Acting (3 units)
DRAM 21B Intermediate Scenery & Property Construction (3 units)
DRAM 21C Advanced Scenery & Property Construction (3 units)
DRAM 49X Rehearsal & Performance (4 units)
 or DRAM 49Y Rehearsal & Performance (5.5 units)
DRAM 71 Fundamentals of Stage Management (4 units)
DRAM 72 Drafting for the Theatre, Film & Television (4 units)
CWE 51 Occupational Work Experience (1–8 units)
 or CWE 52 Occupational Work Experience (1–8 units)

**Stage & Shop Technology Skills Certificates (28 units)**
DRAM 21 Introduction to Technical Theatre (1 unit)
DRAM 21A Scenery & Property Construction (3 units)

And 24 units minimum from the following:
DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)
DRAM 21B Intermediate Scenery & Property Construction (3 units)
DRAM 21C Advanced Scenery & Property Construction (3 units)
DRAM 42A Introduction to Scene Design (4 units)
DRAM 72 Drafting for Theatre, Film & Television (4 units)
DRAM 73 Technology in Wood & Fabric (4 units)
CWE 51 Internship in Stage & Shop Technology (1–8 units)
 or CWE 52 Internship in Stage & Shop Technology (1–8 units)

**Travel Careers**

**AA Degree, Certificate of Proficiency, Career Certificate**

Units required for major: 45, certificate: 7–51

**Associate Degree Requirements**

**Core Courses:** (32 units)
T C 50 Introduction to Travel Careers (2 units)
T C 51 Tourism in North America (4 units)
T C 52 Tourist Centers of Europe (4 units)
T C 53 Global Tourism (4 units)
T C 54 Selling Cruises (4 units)
T C 55 Selling Domestic Travel (4 units)
T C 62A Creating Travel Reservations: Basic (2 units)
T C 62B Creating Travel Reservations: Advanced (2 units)
T C 64 Air Ticketing: North America (3 units)
T C 65 Air Ticketing: International (3 units)

**Elective Courses:** (13 units)
T C 56 Selling Foreign Independent Tours (4 units)
T C 57 Travel Career Seminar (3 units)
T C 58 Selling Group Travel (4 units)

*For a minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.*
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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**Veterinary Technology**

**AS Degree, Certificate of Completion**

Units required for major: 97, certificate: 13

**Associate Degree Requirements*  
Core Courses: (97 units)**

**First Year**

**Fall Quarter (16.5 units)**
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53A Veterinary Medical Terminology (1 unit)
- VT 55 Animal Management & Clinical Skills I (4 units)
- BIOL 40A Anatomy & Physiology (5 units)
- BIOL 41 Microbiology (4 units)

**Winter Quarter (17.5 units)**
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53B Medical Calculations (1 unit)
- VT 56 Animal Management & Clinical Skills II (4 units)
- VT 57A Animal Care Skills (1 unit)
- BIOL 40B Anatomy & Physiology (5 units)
- BIOL 41 Microbiology (4 units)

**Spring Quarter (16.5 units)**
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53C Introduction to Large Animal Technology (4 units)
- VT 54 Veterinary Office Practice (2 units)
- VT 58A Advanced Animal Care Skills (4 units)
- BIOL 40C Anatomy & Physiology (5 units)
- BIOL 41 Microbiology (4 units)

**Second Year**

**Fall Quarter (17.5 units)**
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53D Fundamentals of Diagnostic Imaging (4 units)
- VT 53E Veterinary Office Practice (2 units)
- VT 58A Advanced Animal Care Skills (4 units)
- BIOL 40C Anatomy & Physiology (5 units)
- BIOL 41 Microbiology (4 units)

**Winter Quarter (14.5 units)**
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53D Fundamentals of Diagnostic Imaging (4 units)
- VT 53E Veterinary Office Practice (2 units)
- VT 58A Advanced Animal Care Skills (4 units)
- BIOL 40C Anatomy & Physiology (5 units)
- BIOL 41 Microbiology (4 units)

**Spring Quarter (14.5 units)**
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53D Fundamentals of Diagnostic Imaging (4 units)
- VT 53E Veterinary Office Practice (2 units)
- VT 58A Advanced Animal Care Skills (4 units)
- BIOL 40C Anatomy & Physiology (5 units)
- BIOL 41 Microbiology (4 units)

*All courses must be taken in sequence and completed with a grade of C or better.

As degree, certificate of completion

Units required for major: 97, certificate: 13

Associate Degree Requirements*  
Core Courses: (97 units)

First Year†

Fall Quarter (16.5 units)
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53A Veterinary Medical Terminology (1 unit)
- VT 55 Animal Management & Clinical Skills I (4 units)
- VT 75A Animal Care Skills (1 unit)
- CHEM 30A Survey of Inorganic & Organic Chemistry (5 units)
- BIOL 40A Anatomy & Physiology (5 units)

Winter Quarter (17.5 units)
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53B Medical Calculations (1 unit)
- VT 56 Animal Management & Clinical Skills II (4 units)
- VT 75B Animal Care Skills (1 unit)
- BIOL 40B Anatomy & Physiology (5 units)
- BIOL 41 Microbiology (6 units)

Spring Quarter (16.5 units)
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53C Introduction to Large Animal Technology (1 unit)
- VT 60 Veterinary Office Practice (2 units)
- VT 64A Advanced Animal Care Skills (2 units)
- BIOL 40C Anatomy & Physiology (5 units)
- BIOL 41 Microbiology (4 units)

Second Year‡

Fall Quarter (17.5 units)
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53D Fundamentals of Diagnostic Imaging (4 units)
- VT 81 Clinical Pathology (5 units)
- VT 83 Pharmacology for Technicians (4 units)
- VT 87A Advanced Animal Care Skills (1 unit)
- VT 92 Internship (3 units)

Winter Quarter (14.5 units)
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53D Fundamentals of Diagnostic Imaging (4 units)
- VT 53E Veterinary Office Practice (2 units)
- VT 84 Anesthesiology for Technicians (5 units)
- VT 87B Advanced Animal Care Skills (1 unit)
- VT 92 Internship (3 units)

Spring Quarter (14.5 units)
- VT 50 Seminar for Veterinary Technicians (.5 unit)
- VT 53D Fundamentals of Diagnostic Imaging (4 units)
- VT 53E Veterinary Office Practice (2 units)
- VT 84 Anesthesiology for Technicians (5 units)
- VT 87B Advanced Animal Care Skills (1 unit)
- VT 92 Internship (3 units)

‡All courses must be taken in sequence and completed with a grade of C or better.
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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Online Veterinary Assisting Certificate of Completion (13 units)
VT 52A Veterinary Assisting I (5 units)
VT 52B Veterinary Assisting II (5 units)
VT 88A Clinical Preceptorship I (1.5 units)
VT 88B Clinical Preceptorship II (1.5 units)

**VIDEO & COMPUTER GAME DESIGN**

**AS Degree, Career Certificate**

Units required for major: 63, certificate: 28–63

**Associate Degree Requirements**

Core Courses: (8 units)
CAST 70D 3D Modeling & Animation for Multimedia (4 units)
CAST 92A Introduction to Adobe Photoshop (4 units)

Support Courses: (4.5 units)
Computer & Gaming Courses (30 units)
CIS 55A Introduction to Games (5 units)
CIS 15A Computer Science I: C++ (5 units)
CIS 15B Computer Science II: C++ (5 units)
CIS 55B Introduction to Game Design (5 units)
CIS 15C Computer Science III: C++ (5 units)
CIS 55C Practical Game Design (5 units)

Mathematics & Science Courses (15 units)
MATH 1A Calculus (5 units)
MATH 1B Calculus (5 units)
MATH 22 Discrete Mathematics (5 units)
or CIS 18 Discrete Mathematics

Additional required courses (8 units)
CAST 70D 3D Modeling & Animation for Multimedia (4 units)
CAST 92A Introduction to Adobe Photoshop (4 units)

**Add Certificate #2**

Introduction To Video Game Design Skills Certificate (28 Units)¹

Computer & Gaming courses (20 units)
CIS 55A Introduction to Games (5 units)
CIS 15A Computer Science I: C++ (5 units)
CIS 15B Computer Science II: C++ (5 units)
CIS 55B Introduction to Game Design (5 units)

Additional required courses (8 units)
CAST 70D 3D Modeling & Animation for Multimedia (4 units)
CAST 92A Introduction to Adobe Photoshop (4 units)

**Video & Computer Game Design Career Certificate (63 units)**

Same as A.A. degree without the general education requirements.

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¹ This certificate is designed to prepare the student for entrance into a rigorous gaming program. It provides much of the background to the gaming world as well as a foundation in C++ programming.

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**VIDEO ARTS: MEDIA STUDIES**

**AA Degree, Certificate of Achievement, Certificate of Completion, Certificate of Proficiency**

Units required for major: 48–48.5, certificate: 12–48.5

**Associate Degree Requirements**

Core Courses: (32–32.5 units)
VART 1 Introduction to Film Studies (4 units)
VART 20 Digital Video Production I (4 units)
VART 2A History of Film I: Prior to 1940 (4 units)
VART 2B History of Film II: 1940–Current (4 units)
VART 2C Current Trends of Film, TV & the Internet (4 units)
VART 3 American Cinema (4 units)
MUS 50B Entertainment Law & New Media (4 units)
COMM 10 Gender, Communication & Culture (4.5 units)
or FA 1 Introduction to Popular Culture (4 units)

Support Courses: (16 units minimum)
COMM 10 Gender, Communication & Culture (4.5 units)
COMM 12 Intercultural Communication (4.5 units)
DRAM 62 Acting for Film & Video (4 units)
FA 1 Introduction to Popular Culture (4 units)
GID 1 History of Graphic Design (4 units)
GID 56 Web Site Design (4 units)
GID 71 Storyboarding (4 units)
GID 72 Cartooning (4 units)
GID 84 Motion Graphics (4 units)
PHOT 8 Photography of Multicultural America (4 units)
or PHOT 8H Photography of Multicultural America (Honors) (4 units)
PHOT 10 History of Photography (4 units)
or PHOT 10H History of Photography (Honors) (4 units)
PHOT 65A Introduction to Digital Photography (3 units)
VART 5C Screenplay Writing (4 units)
VART 15 Web Video (4 units)
VART 25 Lighting for Digital Video & Film (4 units)
VART 50 Careers in the Visual Arts (2 units)
VART 60 Careers in the Video Arts (2 units)
VART 78 Portfolio Presentation (2 units)
VART 80 Special Projects in Video Arts (1–4 units)
VART 81B Recording Arts II: Audio for Video (4 units)
or MUS 81B Recording Arts II: Audio for Video (4 units)
VART 84 Digital Video Editing I (4 units)
VART 85 Digital Video Editing II (4 units)
VART 86 Introduction to Digital Sound, Video & Animation (4 units)
VART 89 Introduction to the MAYA 3-D System (4 units)

**Certificate of Proficiency in Media Studies (48–48.5 units)**
Same as A.A. degree without general education requirements.

Certificate of Completion Media Studies (24.5 units)
VART 1 Introduction to Film Studies (4 units)
MUS 50B Entertainment Law & New Media (4 units)
COMM 10 Gender, Communication & Culture (4.5 units)

And three of the following:
VART 2A History of Film I: Prior to 1940 (4 units)

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¹This certificate is designed to prepare the student for entrance into a rigorous gaming program. It provides much of the background to the gaming world as well as a foundation in C++ programming.
VART 2B History of Film II: 1940–Current (4 units)
VART 2C Current Trends of Film, TV & the Internet (4 units)
VART 3 American Cinema (4 units)
PHOT 8 Photography of Multicultural America (4 units)

Certificate of Achievement in Media Studies (12 units)
VART 1 Introduction to Film Studies (4 units)
MUS 50B Entertainment Law & New Media (4 units)

And one of the following:
VART 2A History of Film I: Prior to 1940 (4 units)
VART 2B History of Film II: 1940–Current (4 units)
VART 2C Current Trends of Film, TV & the Internet (4 units)

### VIDEO ARTS: PRODUCTION

**AA Degree, Career Certificate, Skills Certificate**

<table>
<thead>
<tr>
<th>Units required for major: 49, certificate: 12–49</th>
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<tr>
<td><strong>Associate Degree Requirements</strong>*</td>
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<tr>
<td><strong>Core Courses: (Minimum 33 units)</strong></td>
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<tr>
<td>VART 1 Introduction to Film Studies (4 units)</td>
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<td>VART 15 Web Video (4 units)</td>
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<td>PHOT 1 Black &amp; White Photography I (4 units)</td>
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<td>VART 86 Introduction to Digital Sound, Video &amp; Animation (4 units)</td>
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<td>VART 20 Digital Video Production I (4 units)</td>
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<td>VART 21 Digital Video Production II (4 units)</td>
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<td>VART 84 Digital Video Editing I (4 units)</td>
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<td>VART 85 Digital Video Editing II (4 units)</td>
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<tr>
<td><strong>And one of the following:</strong></td>
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<td>VART 78 Portfolio Presentation (2 units)</td>
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<td>VART 50 Careers in the Visual Arts (2 units)</td>
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<td>VART 60 Careers in the Video Arts (2 units)</td>
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<td>VART 80 Special Projects in Video Arts (1–4 units)</td>
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<tr>
<td><strong>Support Courses: (minimum 16 units)</strong></td>
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<td>Minimum of 16 units from any support courses listed below.</td>
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</table>

**Video Production**
VART 5C Screenplay Writing (4 units)
VART 25 Lighting for Digital Video & Film (4 units)
VART 80 Special Projects in Video Arts (1–4 units)
GID 71 Storyboarding (4 units)
DRAM 62 Acting for Film & Video (4 units)

**Media Studies**
F A 1 Introduction to Popular Culture (4 units)
COMM 10 Gender Communication & Culture (4.5 units)
VART 2A History of Film I: Prior to 1940 (4 units)
VART 2B History of Film II: 1940–Current (4 units)
VART 2C Current Trends of Film, TV & the Internet (4 units)
VART 3 American Cinema (4 units)
MUS 50B Entertainment Law & New Media (4 units)
PHOT 8 Photography of Multicultural America (4 units)
PHOT 10 History of Photography (4 units)
GID 1 History of Graphic Design (4 units)

**Music Technology**
MUS 80A Recording Arts I: Recording Studio Basics (4 units)
MUS 81A Recording Arts II: Audio Editing & Production (4 units)
VART 81B Recording Arts II: Audio for Video (4 units)
or MUS 81B Recording Arts II: Audio for Video (4 units)
MUS 82A Recording Arts III: Pro Tools 101 (4 units)
MUS 82B Recording Arts III: Pro Tools 110 (4 units)

**Broadcast Graphics & Animation**
GID 54 Typography (4 units)
GID 72 Cartoonging (4 units)
GID 84 Motion Graphics (4 units)
GID 56 Web Site Design (4 units)
PHOT 65A Introduction to Digital Photography (4 units)
VART 89 Introduction to the MAYA 3-D system (4 units)

**Career Certificate in Video Arts Production (49 units)**
Same as A.A. degree without general education requirements.

**Video Production Skills Certificate (24 units)**
VART 86 Introduction to Digital Sound, Video & Animation (4 units)
VART 15 Web Video (4 units)
VART 20 Digital Video Production I (4 units)
VART 21 Digital Video Production II (4 units)
VART 84 Digital Video Editing I (4 units)
VART 85 Digital Video Editing II (4 units)

**Digital Videography Skill Certificate (12 units)**
VART 20 Digital Video Production I (4 units)
VART 21 Digital Video Production II (4 units)
VART 1 Introduction to Film Studies (4 units)

**Digital Video Editing Skill Certificate (12 units)**
VART 84 Digital Video Editing I (4 units)
VART 85 Digital Video Editing II (4 units)
VART 86 Introduction to Digital Sound, Video & Animation (4 units)

**Audio for Video Skill Certificate (Minimum 12 units)**
VART 84 Digital Video Editing I (4 units)
VART 80 Special Projects in Video Arts (1–4 units)
MUS 81A Recording Arts II: Audio Editing & Production (4 units)
VART 81B Recording Arts II: Audio for Video (4 units)
or MUS 81B Recording Arts II: Audio for Video (4 units)

**Broadcast Graphics Skill Certificate (12 units)**
GID 54 Typography (4 units)
GID 84 Motion Graphics (4 units)
VART 15 Web Video (4 units)
VART 89 Introduction to the MAYA 3-D System (4 units)

**Animation Skill Certificate (12 units)**
GID 71 Storyboarding (4 units)
GID 84 Motion Graphics (4 units)
GID 72 Cartooning (4 units)
or VART 89 Introduction to the MAYA 3-D System (4 units)
WOMEN’S STUDIES

AA Degree

Units required for major: 32.5

Associate Degree Requirements*

Core Courses: (16.5 units)
WMN 5 Introduction to Women’s Studies (4 units)
WMN 11 Women in Global Perspective (4 units)
WMN 21 Psychology of Women: Sex & Gender Differences (4 units)
COMM 10 Gender & Communication (4.5 units)

Support Courses: (16 units)
PSYC 14 Childhood & Adolescence (4 units)
PSYC 22 Psychology of Prejudice (4 units)
SOC 30 Social Psychology (4 units)
SOC 40 Aspects of Marriage & Family (4 units)
SOSC 20 Cross-Cultural Perspectives for a Multicultural Society (4 units)
ENGL 21 Images of Women in Literature (4 units)
or ENGL 22 Women Writers (4 units)
WMN 15 History of Women in Art (4 units)

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

Foothill College 2007–2008  www.foothill.edu
Course Numbering System

The following course numbering system provides a detailed explanation regarding course number designations. When in doubt about the transferability of a course, always consult a counselor.

You are responsible for reviewing prerequisites and repeatability as noted in course descriptions. Only courses with substandard grades may be repeated. Consult a Foothill counselor for more information.

Where there is a conflict between the catalog statements and published curriculum sheets, the latter will take precedence. Consult a counselor for the most current information.

- Courses designated 1–99 are baccalaureate in nature and are generally transferable to the California State University.
- Courses approved for transfer to the University of California are usually numbered 1–49. There are some exceptions to this rule; therefore, you should always consult with a counselor to verify course transferability. For more information, access www.foothill.edu or www.assist.org. The term degree applicable signifies courses which apply to the associate degree and/or baccalaureate transfer degree.
- Courses numbered 100 and above are not transferable.
- Courses numbered 200–99 are prerequisites for required courses that lead to the Associate in Arts and Associate in Science degree.
- Courses numbered 300–399 are workshop, review and other courses offered to meet special collegiate needs of a community nature.
- Courses numbered 400–499 are non-credit, non-graded courses in senior education, special education or other areas that do not apply to the associate degree.
- Courses listed with an “S” suffix signify the first half of the course; a “T” suffix indicates the second half. Courses must be taken in sequential order; and both halves must be completed for credit.
- Community services courses are fee-based, and are scheduled and publicized separately from the state-supported courses identified in this catalog.
California Articulation Number (CAN) System

Foothill participates in the California Articulation Number (CAN) System. When a course appears on the CAN list, it means that this lower-division introductory course corresponds to a course taught in other two- and four-year colleges in California. Credit for a course with a CAN number may be transferred to a participating college and used in lieu of a course with the same CAN number at that college. Participating colleges and universities display these numbers in their catalogs, along with their own course number, title and description. For the most up-to-date information, consult a counselor or access www.csus.edu.

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<td>SPAN 2</td>
<td>SPAN 1+2</td>
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<td>SPAN 3</td>
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<td>SPAN 4</td>
<td>SPAN 2+3</td>
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<td>SPAN 11</td>
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<tr>
<td>SPAN SEQ A</td>
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<td>SPAN SEQ B</td>
<td>SPAN 4+5+6</td>
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<td>SPCH 4</td>
<td>SPCH 1A</td>
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<td>SPCH 6</td>
<td>SPCH 1B</td>
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<td>SPCH 10</td>
<td>SPCH 4</td>
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<tr>
<td>STAT 2</td>
<td>MATH 10</td>
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</tbody>
</table>

For the most up-to-date information, consult a counselor or access www.csus.edu.
## ACADEMIC SKILLS

**Language Arts Division**

**ACAD 102 PUNCTUATION IMPROVEMENT** 1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
Three hours laboratory.
Computerized or text-based instruction in punctuation skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include analysis and application of punctuation rules, usage and grammar. Materials available at beginning, intermediate and advanced levels.

**ACAD 104 SPELLING IMPROVEMENT** 1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
Three hours laboratory.
Computerized or text-based course designed to improve spelling skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include review of phonics, homonyms and analysis, and application of spelling rules. Emphasis on integrating these rules into writing. Materials available at beginning and intermediate levels.

**ACAD 105 WRITING BETTER SENTENCES** 1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
Three hours laboratory.
Computerized or text-based instruction in improving sentence skills. Areas covered can include review of grammar and punctuation rules as relevant to the writing process and introduction to simple, compound, complex and embedded sentence structures. Emphasis on integrating subskills into the whole writing process. Materials available at beginning, intermediate and advanced levels.

**ACAD 108 RESEARCH PAPER ASSISTANCE** 1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
Three hours laboratory.
Individualized course designed to teach basic techniques for the research paper. Skills include selection of topic, collection of data, requirements of form, MLA documentation, and production of a short research paper. One-on-one instruction, conferences, and on-going assessment are the methods used.

**ACAD 110 GRAMMAR IMPROVEMENT** 1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
Three hours laboratory.
Computerized or text-based instruction in grammar. Students begin at their own level, based on diagnostic assessment. Areas covered can include analysis and application of structural elements, punctuation rules and sentence boundaries. Materials available at beginning, intermediate and advanced levels.

**ACAD 112 VOCABULARY IMPROVEMENT** 1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
Three hours laboratory.
Computerized or text-based instruction in improving vocabulary skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include understanding of word parts, analysis of context clues, and learning of new words. Materials available at beginning, intermediate and advanced levels.

**ACAD 122 LISTENING & PRONUNCIATION SKILLS FOR ESL** 1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
Three hours laboratory.
Computerized or text-based instruction in improving listening comprehension and pronunciation skills for non-native speakers of English. Materials available at beginning, intermediate and advanced levels.

## ACCOUNTING

**Business & Social Sciences Division**

**ACTG 1A FINANCIAL ACCOUNTING I** 5 Units
Advisory: Eligibility for MATH 101 and ESL 26.
Five hours lecture, one hour laboratory.
Introduction to accounting information system for decision making. Original entry and posting, adjusting and closing entries, development of accounting system for computers, internal controls over assets, accounting for monetary assets and inventories, and the relationship among financial statements. [CAN BUS 2 = ACTG 1A+1B, CAN BUS SEQ A = ACTG 1A+1B+1C]

**ACTG 1B FINANCIAL ACCOUNTING II** 5 Units
Prerequisite: ACTG 1A
Five hours lecture, one hour laboratory.
Continuing study of accounting information system for decision making. Fixed assets and intangible assets, current liabilities, corporations, bonds, investments, statement of cash flows and financial statement analysis. [CAN BUS 2 = ACTG 1A+1B, CAN BUS SEQ A = ACTG 1A+1B+1C]

**ACTG 1C MANAGERIAL ACCOUNTING** 5 Units
Prerequisite: ACTG 1B.
Advisory: MATH 10 or high school algebra recommended.
Five hours lecture, one hour laboratory.
Review of financial accounting standards, accounting information processing systems and the resulting financial statements. Selected topics related to present value applications, asset recognition, and asset bases of measurement.

**ACTG 51A INTERMEDIATE ACCOUNTING** 4 Units
Prerequisite: ACTG 1B.
Four hours lecture.

**ACTG 51B INTERMEDIATE ACCOUNTING** 4 Units
Prerequisite: ACTG 51A.
Four hours lecture.
Expanded coverage of accounting topics related to liabilities, equity, and investments. Selected topics in revenue recognition, accounting for income taxes, pensions, and leases.

**ACTG 60 ACCOUNTING FOR SMALL BUSINESS** 5 Units
Five hours lecture.
Pre-professional accounting course introducing the theory of double-entry bookkeeping/accounting. Emphasis on basic accounting cycle, elementary accounting principles and procedures, and financial records.

**ACTG 64A COMPUTERIZED ACCOUNTING PRACTICE** 2 Units
Prerequisites: ACTG 1A or equivalent experience.
Advisory: Not open to students with credit in CIS 64A.
Four hours lecture-laboratory.
Focus on using QuickBooks to record financial data. Reviewing the accounting cycle, processing business transactions and preparing financial statements.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
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ACTG 64B  COMPUTERIZED ACCOUNTING PROGRAMS  2 Units
Prerequisite: ACTG 1B or equivalent experience.
Four hours lecture-laboratory.
Practicum in using an electronic spreadsheet program to organize and process
financial and managerial accounting data. Includes research on the Internet.

ACTG 65  PAYROLL & BUSINESS TAX ACCOUNTING  4 Units
Prerequisite: ACTG 1B.
Four hours lecture.
Presentation of basic payroll procedures used in business today. Provides practice
in recording procedures and preparation of tax returns.

ACTG 66  COST ACCOUNTING  4 Units
Prerequisite: ACTG 1C or equivalent experience.
Five hours lecture.
Fundamentals of activity-based costing, job-order, process cost, and standard
cost accounting systems.

ACTG 67  TAX ACCOUNTING  5 Units
Advisory: Eligibility for MATH 101 and ESL 26.
Five hours lecture.
Advanced study of current Federal and California Income Tax Law as it relates to
individuals with emphasis on practical application, tax planning and tax form preparation.

ACTG 68A  ADVANCED TAX ACCOUNTING I  4 Units
Prerequisite: ACTG 67 or equivalent experience, or concurrent enrollment
in ACTG 67.
May be taken three times for credit.
Four hours lecture.
Current federal income tax law as it relates to sole proprietorships and partnerships.

ACTG 68B  ADVANCED TAX ACCOUNTING II  4 Units
Prerequisites: ACTG 68A.
May be taken three times for credit.
Four hours lecture.
Current federal income tax law as it relates to corporations, estate, trust, and
gift taxes.

ACTG 68C  ADVANCED TAX ACCOUNTING III  3 Units
Advisory: Eligibility for MATH 101 and ESL 26.
May be taken three times for credit.
Three hours lecture.
Current federal income tax administration and procedures and review of Enrolled
Agent Exam.

ALAP 61  RESISTIVE EXERCISE FOR THE .5 Unit
ALAP 61X PHYSICALLY LIMITED 1 Unit
Prerequisite: Medically verified disability.
Any combination of ALAP 61 & 61X may be taken a maximum of six times for credit.
Two hours laboratory, one and one-half hours individualized activity.
Designed to instruct students in methodologies for increasing muscular strength.
Uses free weights, weight machines, as appropriate. Teaches skills necessary to
prepare students for mainstreamed physical education.

ALAP 62  INDIVIDUALIZED EXERCISE FOR .5 Unit
ALAP 62X THE PHYSICALLY LIMITED 1 Unit
Prerequisite: Medically verified disability.
Any combination of ALAP 62 & 62X may be taken a maximum of six times for credit.
Two hours laboratory, one and one-half hours individualized activity.
Cardiovascular endurance, muscular endurance and strength, flexibility, balance
and coordination activities, motor skills, as appropriate. Emphasis on adapting and
developing an exercise program to meet individual needs and goals.

ALAP 63  POSTURAL FITNESS FOR THE .5 Unit
ALAP 63X PHYSICALLY LIMITED 1 Unit
Prerequisite: Medically verified disability.
Any combination of ALAP 63 & 63X may be taken a maximum of six times for credit.
Two hours laboratory.
Exercises for improving body mechanics for those with musculo-skeletal impairments.
Body mechanics and lumbar spine stabilization.

ALAP 64  AEROBIC DANCE FOR THE .5 Unit
ALAP 64X PHYSICALLY LIMITED 1 Unit
Prerequisite: Medically verified disability.
Any combination of ALAP 64 & 64X may be taken a maximum of six times for credit.
Three hours laboratory.
Aerobic dance, individually modified for those with physical limitations, designed
to increase cardiovascular and muscular endurance. Combination of exercise
and low-impact dance movements. Emphasis on rhythm, balance, locomotor and
coordination activities, as appropriate.

ALAP 65  STRETCHING & FLEXIBILITY FOR .5 Unit
ALAP 65X THE PHYSICALLY DISABLED 1 Unit
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALAP 65 & 65X may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
Individualized stretching and flexibility for the physically limited student. Emphasis
on increased range of motion and flexibility.

ALAP 66  FUNCTIONAL FITNESS FOR THE .5 Unit
ALAP 66X PHYSICALLY LIMITED 1 Unit
Formerly SPAP 66, X,Y.
Prerequisite: Medically verified disability.
Any combination of ALAP 66 & 66X may be taken a maximum of six times for credit.
Two hours laboratory.
Exercises for improving activities of daily living. Emphasis on proper body
mechanics, postures and movement patterns. Development of joint mobility,
muscular strength, muscular endurance, balance, coordination and locomotion
as it relates to daily activities.

ALAP 67  BALANCE & FUNCTIONAL MOVEMENT .5 Unit
ALAP 67X FOR THE PHYSICALLY LIMITED 1 Unit
Any combination of ALAP 67 & 67X may be taken a maximum of six times for credit.
Two hours laboratory.
Balance training to enhance coordination, balance and neuromuscular function.
Emphasis on enhancing functional movement, movement efficiency resulting in
improved posture, and functional movement experiences.

ALAP 70  ADAPTIVE AQUATICS FOR THE .5 Unit
ALAP 70X THE PHYSICALLY LIMITED 1 Unit
Prerequisite: Medically verified disability.
Any combination of ALAP 70 & 70X may be taken a maximum of six times for credit.
Two hours laboratory.
Individualized swimming instruction to improve cardiovascular endurance.

ADAPTIVE LEARNING:
ADAPTIVE PHYSICAL EDUCATION

Adaptive Learning Division
(650) 949-7321
www.foothill.edu/al/

ALAP 52  INTRODUCTION TO CONCEPTS OF PHYSICAL .5 Unit
ALAP 52X FITNESS FOR THE DISABLED STUDENT 1 Unit
ALAP 52Y 1.5 Units
Prerequisite: Medically verified disability.
Any combination of ALAP 52, 52X & 52Y may be taken a maximum of six times for credit.
Two hours lecture-laboratory for each unit of credit.
Designed to develop an understanding of the concept of physical fitness and its
components. Learn to measure and evaluate present level of physical fitness.
Develop understanding and skill involved in injury prevention and first aid.

ALAP 60  GENERAL CONDITIONING FOR .5 Unit
ALAP 60X THE PHYSICALLY LIMITED 1 Unit
Prerequisite: Medically verified disability.
Any combination of ALAP 60 & 60X may be taken a maximum of six times for credit.
Two hours laboratory and one and one-half hours individualized activity.
Personal instruction in exercise programs to develop a comprehensive exercise
program based on physician's recommendations, physical abilities and individual
goals. Cardiovascular endurance, flexibility, muscular strength and endurance,
balance and/ or motor skills, as appropriate. Exercise program include circuit training.
### ADAPTIVE LEARNING: COMMUNITY BASED

Adaptive Learning Division  
(650) 949-7321  
www.foothill.edu/al/

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ALCB 201</td>
<td>BEGINNING LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
<td>.5</td>
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<tr>
<td>ALCB 201X</td>
<td>BEGINNING LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
<td>1</td>
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<tr>
<td>Prerequisite: Medically verified disability. Any combination of ALCB 201 &amp; 201X may be taken a maximum of six times for credit. One and one-half hours lecture-laboratory. Designed for adults with acquired, congenital or progressive hearing impairment. Includes basic sounds of the English language and production of basic speech sounds appears on the lips and face of the speaker. Mechanics of the ear and sound will be presented. Physiological problems related to hearing will be discussed as well as some technological solutions. Practical experience in lip reading will be provided.</td>
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<tr>
<td>ALCB 202</td>
<td>INTERMEDIATE LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
<td>.5</td>
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<tr>
<td>ALCB 202X</td>
<td>INTERMEDIATE LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
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<tr>
<td>Prerequisite: Medically verified disability. Any combination of ALCB 202 &amp; 202X may be taken a maximum of six times for credit. One and one-half hours lecture-laboratory. Designed to meet the needs of the hearing impaired adult with acquired hearing impairment.</td>
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<tr>
<td>ALCB 203</td>
<td>ADVANCED LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
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<tr>
<td>ALCB 203X</td>
<td>ADVANCED LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
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<tr>
<td>Prerequisite: Medically verified disability. ALCB 201, 202 or equivalent skills. Any combination of ALCB 203 &amp; 203X may be taken a maximum of six times for credit. One and one-half hours lecture-laboratory. Designed to meet the needs of the hearing impaired adult with acquired hearing impairment.</td>
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<tr>
<td>ALCB 204</td>
<td>POST-ADVANCED LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
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<tr>
<td>ALCB 204X</td>
<td>POST-ADVANCED LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
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<tr>
<td>Prerequisite: Medically verified disability. ALCB 201, 202 or equivalent skills. Any combination of ALCB 204 &amp; 204X may be taken a maximum of six times for credit. One and one-half hours lecture-laboratory. Designed for hard of hearing adults who exhibit substantial lip-reading skills and wish to upgrade and maintain their abilities.</td>
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<td>ALCB 207</td>
<td>MOBILITY SKILLS FOR THE VISUALLY IMPAIRED</td>
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<td>ALCB 207X</td>
<td>MOBILITY SKILLS FOR THE VISUALLY IMPAIRED</td>
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<td>ALCB 207Y</td>
<td>MOBILITY SKILLS FOR THE VISUALLY IMPAIRED</td>
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<tr>
<td>Prerequisite: Medically verified disability. Any combination of ALCB 207, 207X &amp; 207Y may be taken a maximum of six times for credit. One and one-half hours laboratory. Designed for low vision and blind adults to develop competence and confidence with independent orientation and mobility skills. Weekly field trips will enhance the understanding and appreciation for community resources while participating in skill building.</td>
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<tr>
<td>ALCB 222</td>
<td>JOB SEARCH SKILLS</td>
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<td>ALCB 222X</td>
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<tr>
<td>ALCB 222Z</td>
<td>JOB SEARCH SKILLS</td>
<td>3</td>
</tr>
<tr>
<td>Any combination of ALCB 222, 222X, 222Y &amp; 222Z may be taken a maximum of six times for credit. Two hours lecture-laboratory, one-half hour laboratory. Preparation and skills necessary for re-entry into the job market. Emphasis on technological changes impacting the job search. Includes use of the Internet for job search.</td>
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<tr>
<td>ALCB 223</td>
<td>CAREER RESOURCES</td>
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<td>ALCB 223X</td>
<td>CAREER RESOURCES</td>
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<tr>
<td>ALCB 223Y</td>
<td>CAREER RESOURCES</td>
<td>2</td>
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<tr>
<td>ALCB 223Z</td>
<td>CAREER RESOURCES</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: Medically verified disability. Any combination of ALCB 223, 223X, 223Y &amp; 223Z may be taken a maximum of six times for credit. Three hours laboratory for each unit of credit. Introduction and hands-on use of resources available to research and find employment in the Bay Area. Resources include daily job postings, fax, Internet, telephones, company leads, casual labor, videos and career library. Designed for the disabled student.</td>
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<tr>
<td>ALCB 224</td>
<td>EMPLOYMENT ISSUES</td>
<td>.5</td>
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<tr>
<td>ALCB 224X</td>
<td>EMPLOYMENT ISSUES</td>
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<tr>
<td>ALCB 224Y</td>
<td>EMPLOYMENT ISSUES</td>
<td>2</td>
</tr>
<tr>
<td>ALCB 224Z</td>
<td>EMPLOYMENT ISSUES</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: Medically verified disability. Any combination of ALCB 224, 224X, 224Y &amp; 224Z may be taken a maximum of six times for credit. Two hours lecture-laboratory for each unit of credit. Exploration of work-related issues, situations and decision-making skills related to employment and job retention. Emphasis on problems facing the re-entry worker and the disabled.</td>
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<tr>
<td>ALCB 229</td>
<td>WORK ADJUSTMENT FOR THE DISABLED</td>
<td>.5</td>
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<tr>
<td>ALCB 229X</td>
<td>WORK ADJUSTMENT FOR THE DISABLED</td>
<td>1</td>
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<tr>
<td>ALCB 229Y</td>
<td>WORK ADJUSTMENT FOR THE DISABLED</td>
<td>2</td>
</tr>
<tr>
<td>ALCB 229Z</td>
<td>WORK ADJUSTMENT FOR THE DISABLED</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: Medically verified disability. Any combination of ALCB 229, 229X, 229Y &amp; 229Z may be taken a maximum of six times for credit. Three hours laboratory for each unit of credit. Designed to help the student develop realistic work behavior. Focus on group interaction, sharing of attitudes, fears, hopes and expectations as they relate to work. Student participation in vocational testing to assess interest and abilities.</td>
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<tr>
<td>ALCB 230</td>
<td>INTRODUCTION TO THE COMPUTER FOR THE DISABLED</td>
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<tr>
<td>ALCB 230X</td>
<td>INTRODUCTION TO THE COMPUTER FOR THE DISABLED</td>
<td>1</td>
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<tr>
<td>ALCB 230Y</td>
<td>INTRODUCTION TO THE COMPUTER FOR THE DISABLED</td>
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</tr>
<tr>
<td>ALCB 230Z</td>
<td>INTRODUCTION TO THE COMPUTER FOR THE DISABLED</td>
<td>3</td>
</tr>
<tr>
<td>Any combination of ALCB 230, 230X, 230Y &amp; 230Z may be taken a maximum of six times for credit. Four hours lecture-laboratory, two hours terminal time. Introduction to the computer and its uses for the student with little or no computer experience with a word processor and file management techniques. Discussion of other software applications. This course is designed for the student with a medically verified disability.</td>
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<tr>
<td>ALCB 231</td>
<td>CAREER PLANNING &amp; PERSONAL ASSESSMENT</td>
<td>.5</td>
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<tr>
<td>ALCB 231X</td>
<td>CAREER PLANNING &amp; PERSONAL ASSESSMENT</td>
<td>1</td>
</tr>
<tr>
<td>ALCB 231Y</td>
<td>CAREER PLANNING &amp; PERSONAL ASSESSMENT</td>
<td>2</td>
</tr>
<tr>
<td>ALCB 231Z</td>
<td>CAREER PLANNING &amp; PERSONAL ASSESSMENT</td>
<td>3</td>
</tr>
<tr>
<td>Any combination of ALCB 231, 231X, 231Y, &amp; 231Z may be taken for a maximum of nine units. Non-degree applicable credit course. Prerequisite: Medically verified disability. Designed to help students develop a personal profile that identifies sociological, psychological and physiological perspectives for success in work, education and personal life.</td>
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</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCB 240</td>
<td>HEALTHIER LIVING WITH ARTHRITIS</td>
<td>1</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to acquire information and develop knowledge and social interaction, and improve memory retention. May be taken six times for credit. One lecture-laboratory, one hour terminal time.</td>
</tr>
<tr>
<td>ALCB 401,X,Y</td>
<td>LIFE DEVELOPMENT: GOAL SETTING</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to improve knowledge of basic goal-setting skills and ability to apply goals to daily life. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 402,X,Y</td>
<td>LEISURE MANAGEMENT</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to acquire information about and develop strategies for managing accessible, affordable and pleasing leisure time. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 403,X,Y</td>
<td>CHANGING GENERATIONS</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed to offer an opportunity for young and old to share a relationship. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 404,X,Y</td>
<td>CONSUMER TOPICS</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to acquire information about current events with an emphasis on comparing and contrasting current with past events to enhance knowledge and social interaction, and improve memory retention. May be taken six times for credit. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 405,X,Y</td>
<td>INDEPENDENT LIVING SKILLS</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to improve knowledge of basic goal-setting skills and ability to apply goals to daily living. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 406,X,Y</td>
<td>WORLD NEWS DISCUSSION</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled to study world news by examining turning points in History, comparing and contrasting them with current world events to enhance memory retention and self-esteem. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 407,X,Y</td>
<td>SOCIAL CHANGE</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled to improve memory and understanding of changes in society to increase awareness of the impact of these changes and increase social interaction. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 408,X,Y</td>
<td>ART APPRECIATION</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to acquire an appreciation of artists and their work. Provides opportunity for social interaction and intellectual stimulation made possible through shared knowledge of artists and their work. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 409,X,Y</td>
<td>MUSIC APPRECIATION</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to acquire appreciation of composers and their work. Emphasis on identification and recall of auditory input. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 410,X,Y</td>
<td>HEALTH ISSUES</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to acquire information about and develop strategies for managing accessible, affordable and pleasing leisure time. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 411,X,Y</td>
<td>RELAXATION TECHNIQUES</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to acquire information about and develop techniques for achieving relaxation by releasing mental and physical tension. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 412,X,Y</td>
<td>STRESS MANAGEMENT</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to recognize stress symptoms and become aware of signals which cause triggers in stress. Learn stress management skills from passive to active take-charge role. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 413,X,Y</td>
<td>HEALTHY AGING</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed to provide disabled and/or non-disabled students with the necessary information to make informed decisions about successful aging. Students will learn techniques and gain knowledge to facilitate healthy aging. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 414,X,Y</td>
<td>AROUND THE WORLD IN TRAVEL STUDY</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to recall personal travel. Focuses on the discussion of geography, History, religions and arts of other cultures to increase knowledge and social interaction, and improve memory retention. One hour laboratory.</td>
</tr>
<tr>
<td>ALCB 415,X,Y</td>
<td>ANALYSIS OF CURRENT EVENTS</td>
<td>0</td>
<td>Medically verified disability.</td>
<td>Designed for the disabled student to acquire information about current events with an emphasis on comparing and contrasting current with past events to enhance memory retention and self-esteem. One hour laboratory.</td>
</tr>
</tbody>
</table>
ALCB 432,X,Y  USE OF COMMUNITY RESOURCES 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 432, 432X & 432Y may be taken a maximum of six times for credit.
One hour laboratory.
Overview of community resources with emphasis on skills for living independently.

ALCB 433,X–Z  SOCIAL COMMUNICATION 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 433, 433X, 433Y & 433Z may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to teach techniques in verbal communication specifically to improve family, social and work-related situations.

ALCB 451,X–Z  DRAWING & PAINTING 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 451, 451X, 451Y & 451Z may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to provide directed experiences in self-expression. Emphasis on various activities designed to enhance physical and cognitive creative expression and enable the student to develop independent creative activities through adapted drama, music, art and writing.

ALCB 452,X–Z  MUSIC & SONG 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 452, 452X & 452Y may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to provide directed experiences in self-expression. Emphasis on various activities designed to enhance physical and cognitive creative expression and enable the student to develop independent creative activities through adapted drama, music, art and writing.

ALCB 453,X–Z  CLAY ART 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 453, 453X, 453Y & 453Z may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to provide directed experiences in self-expression. Emphasis on various activities designed to enhance physical and cognitive creative expression and enable the student to develop independent creative activities through adapted drama, music, art and writing.

ALCB 454,X,Y  MUSIC & SONG 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 454, 454X & 454Y may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to improve expressive capability, manipulatory skills and eye-hand coordination, increase self-esteem and increase social interaction through the use of singing, drawing and sketching materials, tools, and techniques to create two-dimensional art in a group setting.

ALCB 455,X–Z  MUSIC & MOVEMENT 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 455, 455X, 455Y & 455Z may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to improve expressive capability, manipulatory skills and eye-hand coordination, increase self-esteem and increase social interaction through the use of seasonal, leather, wood, fabric, yarn and paper materials to create crafts projects in a group setting.

ALCB 456,X–Z  CRAFTS 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 456, 456X, 456Y & 456Z may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to improve expressive capability, manipulatory skills and eye-hand coordination, increase self-esteem and increase social interaction through the use of seasonal, leather, wood, fabric, yarn and paper materials to create crafts projects in a group setting.

ALCB 461,X–Z  CREATIVE SELF-EXPRESSION 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 461, 461X, 461Y & 461Z may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to improve flexibility, range of movement, muscular strength and endurance.

ALCB 462,X–Z  VERBAL EXPRESSION 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 462, 462X, 462Y & 462Z may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to teach techniques in verbal communication specifically to improve family, social and work-related situations.

ALCB 463,X,Y  CREATIVE WRITING 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 463, 463X & 463Y may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to present written autobiographical, fictional and non-fictional experiences which are shared orally for both appreciation and constructive input to enhance self-esteem, memory retention and writing ability.

ALCB 464,X,Y  POETRY & LITERATURE 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 464, 464X & 464Y may be taken a maximum of six times for credit.
One hour laboratory.
Designed for the disabled student to acquire knowledge and appreciation in poetry and literature with emphasis of its various forms and recall of auditory input.

ALCB 465,X–Z  USE OF COMMUNITY RESOURCES 0 Units
Prerequisite: Medically verified disability.
Any combination of ALCB 465, 465X, 465Y & 465Z may be taken a maximum of six times for credit.
One hour laboratory.
Overview of community resources with emphasis on skills for living independently.
ADAPTIVE LEARNING: LEARNING DISABILITY

Adaptive Learning Division
(650) 949-7017
www.foothill.edu/al/

ALLD 201 DIAGNOSING LEARNING DISABILITIES 2 Units
Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.
Advisory: Pass/No Pass.
Any combination of ALLD 201 & 201X may be taken a maximum of three times for credit.
Three hours laboratory for each unit of credit.
Evaluation to determine eligibility for college learning disabilities support services and accommodations. Analysis of learning strengths, weaknesses and identification of college resources.

ALLD 202 SPECIAL PROJECTS FOR LEARNING DISABLED 1 Unit
Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.
Advisory: Pass/No Pass.
Any combination of ALLD 202 & 202X may be taken a maximum of three times for credit.
Three hours laboratory for each unit of credit.
Designed to help students with disabilities understand the nature, causes, and types of learning differences; learn about the services available to assure success in academic, vocational and social setting; and advocate for themselves.

ALLD 203 COMPENSATORY TECHNIQUES 1 Unit
Non-degree applicable credit course.
Advisory: Designed for students with learning differences. Pass/No Pass. May be taken three times for credit.
Three hours laboratory.
Fundamentals of learning differences with emphasis on skills development in compensatory techniques.

ALLD 204 TECHNOLOGY-BASED WRITING FOR STUDENTS WITH LEARNING DIFFERENCES 2 Units
Non-degree applicable credit course.
Advisory: Computer skills including basic keyboarding or consent of instructor. Pass/No Pass.
Any combination of ALLD 204 & 204X may be taken a maximum of two times for credit.
Two hours lecture-laboratory, one hour terminal time.
Using technology and structured writing software to plan, organize, create and edit writing projects.

ALLD 205 READING REMEDIATION 1 Unit
Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.
Advisory: Pass/No Pass.
Any combination of ALLD 205 & 205X may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
A systematic and progressive remedial reading class with an emphasis on reading comprehension. Designed for ALLD students.

ALLD 206 PARAGRAPH REMEDIATION 1 Unit
Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.
Advisory: Pass/No Pass.
Any combination of ALLD 206 & 206X may be taken a maximum of six times for credit.
Three hours laboratory per unit of credit.
A systematic and progressive paragraph development class with an emphasis on writing concisely with correct grammar. Designed for ALLD students.

ALLD 207 BASIC MATH REMEDIATION 1 Unit
Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.
Advisory: Pass/No Pass.
Any combination of ALLD 207 & 207X may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
A systematic and remedial math class with an emphasis on basic math skills. Designed for ALLD students.

ALLD 208 MAINSTREAMING FOR SUCCESS 1 Unit
Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.
Advisory: Pass/No Pass.
Any combination of ALLD 208 & 208X may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
Identification and resolution of problems that a disabled individual deals with when mainstreaming. Designed for ALLD students.

ALLD 209 SKILL BUILDING FOR THE DISABLED 1 Unit
Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.
Advisory: Pass/No Pass.
Any combination of ALLD 209 & 209X may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
Designed for ALLD students with perceptual problems who need to learn compensation strategies to achieve academic success.

ALLD 211 ENHANCING COLLEGE SUCCESS 2 Units
Non-degree applicable credit course.
May be taken two times for credit.
Two hours lecture, two hours of individualized assigned activities.
Define the characteristics of a successful college student, and practice developing behaviors and attitudes that increase academic success, including familiarity with campus resources. Basic aspects of various learning differences, including learning disabilities and attention deficit/hyperactive disorders and their impact on learning. Emphasis is on awareness and acceptance of individual learning differences. Demonstrate advocacy for learning requirements with instructional faculty. Evaluate and reinforce successful learning tools in areas such as time management, memory, processing information, and learning styles. Placement by Disability Resource Center counselors, or faculty is accepted. Prior Learning Disabilities testing is not required.

ALLD 212 STRATEGIC LEARNING FOR COLLEGE SUCCESS 2 Units
Non-degree applicable credit course.
May be taken two times for credit.
Two hours lecture, two hours of individualized assigned activities.
Develop specific knowledge and comprehension about information processing strengths and deficits. Learn optimal learning strategies and accommodative techniques for students with learning differences. Evaluate and reinforce successful learning tools in areas such as time management, memory, processing information, and learning styles, utilizing recent research in brain based learning theory. Demonstrate advocacy for specialized learning requirements with instructional faculty, when applicable. Placement by Disability Resource Center counselors, or faculty is accepted. Prior Learning Disabilities testing is not required.
Adaptive Learning Division

AdAPTIVE LEARNING: POST-STROKE

Adaptive Learning Division (650) 949-6960
www.foothill.edu/al/

ALPS 200 ORIENTATION FOR THE DISABLED .5 Unit
ALPS 200X 1 Unit
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 200 & 200X may be taken a maximum of two times for credit.
One hour lecture-laboratory for each half unit of credit.
Orientation of the student to the program. Discussion of disability and related issues, collection of student data, goal setting.

ALPS 201 ASSESSMENT FOR THE ACQUIRED .5 Unit
ALPS 201X 1 Unit
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass. Completion or concurrent enrollment in ALPS 200.
Any combination of ALPS 201 & 201X may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
In-depth assessment of one or more of the following areas: communication, cognition, psychosocial and academic awareness skills; living skills relating to self-care and home management skills; psychomotor function.

ALPS 202 LANGUAGE ASSESSMENT FOR THE DISABLED .5 Unit
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
May be taken six times for credit.
One-half hour lecture.
In-depth assessment of one or more of the following areas: cognitive, communication, psychosocial and academic awareness skills. An open-entry/open exit post stroke center course.

ALPS 203 LIVING SKILLS ASSESSMENT FOR THE DISABLED .5 Unit
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
May be taken six times for credit.
One and one-half hour laboratory.
In-depth assessment of living skills to assist in placement and activities in other courses.

ALPS 204 MOBILITY & FITNESS ASSESSMENT FOR THE DISABLED .5 Unit
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
May be taken six times for credit.
One and one-half hours laboratory.
In-depth assessment for psychomotor function.

ALPS 205 COMMUNICATION SKILLS FOR THE DISABLED .5 Unit
ALPS 205X 1 Unit
ALPS 205Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 205, 205X & 205Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed to assist the student's enhancement of speech, language and/or hearing skills. Emphasis on post stroke and acquired brain injury.

ALPS 206 ADAPTATION SKILLS FOR THE DISABLED .5 Unit
ALPS 206X 1 Unit
ALPS 206Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass. Completion or concurrent enrollment in ALPS 200.
Any combination of ALPS 206, 206X & 206Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed to enhance adaptation skills for daily living particularly when dependence is a factor. Emphasis on post-stroke and acquired brain injury.

ALPS 207 MOBILITY & FITNESS SKILLS FOR THE DISABLED .5 Unit
ALPS 207X 1 Unit
ALPS 207Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass. Completion or concurrent enrollment in ALPS 200.
Any combination of ALPS 207, 207X & 207Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed to assist the handicapped student's enhancement of balance, mobility and lifetime fitness skills. Emphasis on post-stroke and acquired brain injury.

ALPS 208 COPING WITH DISABILITY .5 Unit
ALPS 208X 1 Unit
ALPS 208Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass. Completion or concurrent enrollment in ALPS 200.
Any combination of ALPS 208, 208X & 208Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed to assist students to understand and deal with disabilities.

ALPS 209 FUNCTIONAL COMMUNICATION .5 Unit
ALPS 209X 1 Unit
ALPS 209Y 3 Units
Prerequisite: Medically verified disability. Completion of ALPS 205.
Any combination of ALPS 209, 209X & 209Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Rules of language and their application in a social context. For individuals with acquired brain injury (ABI).

ALPS 210 FUNCTIONAL SKILLS OF DAILY .5 Unit
ALPS 210X 1 Unit
ALPS 210Y 3 Units
Prerequisite: Medically verified disability. Completion of ALPS 206.
Advisory: Pass/No Pass. Completion or concurrent enrollment in ALPS 200.
Any combination of ALPS 210, 210X & 210Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Enhancement of functional skills to develop and provide quality and ease to daily living skills. An open entry, open exit course.

ALPS 211 FUNCTIONAL STRENGTH, BALANCE & CONDITIONING TRAINING FOR THE DISABLED .5 Unit
ALPS 211X 1 Unit
ALPS 211Y 3 Units
Prerequisite: Medically verified disability. Completion of ALPS 207.
Advisory: Pass/No Pass. Completion or concurrent enrollment in ALPS 200.
Any combination of ALPS 211, 211X & 211Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed to assist ambulatory students with acquired brain injury (ABI) with strength, balance and normal movement. Emphasis on normal patterns of movement.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008 www.foothill.edu
ALPS 212  EMERGENCY HOUSEHOLD          .5 Unit
ALPS 212X PROCEDURES FOR THE DISABLED  1 Unit
ALPS 212Y                              1.5 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass
Any combination of ALPS 212, 212X & 212Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed to promote confidence and personal safety in dealing with emergency situations.

ALPS 213  COGNITIVE RETRAINING FOR THE DISABLED .5 Unit
ALPS 213X 1 Unit
ALPS 213Y 3 Units
Prerequisite: Medically verified disability.
Any combination of ALPS 213, 213X & 213Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Specialized computer-assisted instruction. Emphasis on processing skills, memory training and problem solving skills.

ALPS 214  MANAGEMENT OF PHYSICAL DISABILITIES .5 Unit
ALPS 214X 1 Unit
ALPS 214Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 214, 214X & 214Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Twenty-four hour management for the physically disabled adult. Learning to overcome the physical difficulties following a stroke. An open-entry, open-exit stroke center course.

ALPS 215  MOBILITY IN SITTING & STANDING FOR THE DISABLED .5 Unit
ALPS 215X 1 Unit
ALPS 215Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 215, 215X & 215Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed for students with minimal ambulatory skills and/or balance problems. Emphasis on developing symmetrical sitting balance, trunk control, and beginning standing activities leading to pre-gait and gait activities.

ALPS 216  INDEPENDENT ACCESS SKILLS FOR POST-STROKE .5 Unit
ALPS 216X 1 Unit
ALPS 216Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 216, 216X & 216Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed to develop competence and confidence with independent orientation and mobility skills for post-stroke. Weekly field trips to allow accessibility to community resources, while participating in skill-building.

ALPS 217  SPECIAL PROJECTS IN THE POST-STROKE PROGRAM .5 Unit
ALPS 217X 1 Unit
ALPS 217Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 217, 217X & 217Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Activity and discussion focused on a tailored, individualized project for students who require or need additional help in community reintegration.

ALPS 218  TRANSITION CLASS FOR POST-STROKE PROGRAM .5 Unit
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
May be taken six times for credit.
One hour lecture-laboratory.
Designed to assist the handicapped student to transition from Reach Program to other community programs and activities.

ALPS 220  CAREGIVING: LEARNING POSITIVE COPING SKILLS .5 Unit
ALPS 220X 1 Unit
ALPS 220Y 3 Units
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 220, 220X & 220Y may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Designed to assist caregivers of persons with disabilities to understand the physical, emotional and familial aspects of disabilities with an emphasis on coping skills.

ALTW 201  BASIC ENGLISH FOR THE DISABLED STUDENT 1 Unit
Formerly: ALTW 105
Prerequisite: Medically verified disability.
May be taken two times for credit.
Two hours lecture-laboratory.
Basic English skills for the disabled. Emphasis on grammar, sentence and paragraph structure and practical applications.

ALTW 202  BASIC MATH SKILLS FOR THE DISABLED STUDENT 1 Unit
Formerly: ALTW 104
Prerequisite: Medically verified disability.
May be taken two times for credit.
Two hours lecture-laboratory.
Basic math skills for the disabled. Emphasis on basic math functions, money handling and practical applications.

ALTW 203  LEARNING STYLES & STRATEGIES FOR THE DISABLED STUDENT 1 Unit
Formerly: ALTW 102
Prerequisite: Medically verified disability.
May be taken two times for credit.
Identification of learning styles and patterns, the development of a personal profile and compensatory strategies, study skills and test-taking will be explored.

ALTW 204  COMMUNICATION SKILLS FOR THE DISABLED STUDENT 1 Unit
Formerly: ALTW 108
Prerequisite: Medically verified disability.
May be taken two times for credit.
Two hours lecture-laboratory.
Enhancement of self-esteem and communication skills in order to increase confidence in interpersonal interactions.

ALTW 205  OFFICE SKILLS FOR THE DISABLED STUDENT 2 Units
Formerly: ALTW 110
Prerequisite: Medically verified disability.
May be taken two times for credit.
Four hours lecture-laboratory, one hour terminal time.
Practical office skills needed for successful employment. Focuses on filing systems, record management and mail handling. Designed for the disabled student.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ALTW 206</td>
<td>BEGINNING WORD PROCESSING FOR THE DISABLED STUDENT</td>
<td>3</td>
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<tr>
<td>Formerly: ALTW 112</td>
<td>Prerequisite: Medically verified disability.</td>
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<td>May be taken two times for credit.</td>
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<td></td>
<td>Two hours lecture, two hours lecture-laboratory, two hours terminal time. Introduction to the computer and its uses for the student with little or no computer experience. Emphasis on word processing. Designed for the disabled student.</td>
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<tr>
<td>ALTW 207</td>
<td>RESOURCES IN THE COMMUNITY FOR THE DISABLED STUDENT</td>
<td>1</td>
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<tr>
<td>Formerly: ALTW 115</td>
<td>Prerequisite: Medically verified disability.</td>
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<td>May be taken two times for credit.</td>
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<td></td>
<td>Two hours lecture-laboratory.</td>
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<td></td>
<td>Overview of community resources for the disabled student.</td>
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<td>ALTW 208</td>
<td>JOB TRAINING/INTERNSHIP FOR THE DISABLED STUDENT</td>
<td>1.5</td>
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<tr>
<td>Formerly: ALTW 113</td>
<td>Prerequisite: Medically verified disability.</td>
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<td></td>
<td>May be taken six times for credit.</td>
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<td></td>
<td>Four and one-half hours laboratory.</td>
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<td></td>
<td>Practical skills needed for successful employment. Emphasis on on-the-job training experiences; discussion and evaluation of one's performance.</td>
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<tr>
<td>ALTW 209</td>
<td>SOCIAL SKILLS FOR THE DISABLED STUDENT 1 Unit</td>
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<tr>
<td>Formerly: ALTW 117</td>
<td>Prerequisite: Medically verified disability.</td>
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<td>May be taken two times for credit.</td>
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<td></td>
<td>Two hours lecture-laboratory.</td>
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<td></td>
<td>Enhancement of self-esteem and socialization skills in order to increase confidence in personal and social interactions.</td>
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<tr>
<td>ALTW 210</td>
<td>OFFICE APPLICATIONS FOR THE DISABLED STUDENT 2 Units</td>
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<tr>
<td>Formerly: ALTW 120</td>
<td>Prerequisite: Medically verified disability.</td>
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<td>May be taken two times for credit.</td>
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<td></td>
<td>Four hours lecture-laboratory, one hour internship. Practical office applications needed for successful employment. Focuses on business etiquette, office equipment and adaptations.</td>
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<tr>
<td>ALTW 211</td>
<td>INTRODUCTION TO EXCEL FOR THE DISABLED STUDENT 3 Units</td>
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<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture, two hours lecture-laboratory, two hours terminal time. Introduction to Excel and its uses for the student with little computer experience. Emphasis on spreadsheets, charts and tables. Designed for the disabled student.</td>
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<tr>
<td>ALTW 212</td>
<td>JOB SEARCH SKILLS: THE RESUME FOR THE DISABLED STUDENT 1 Unit</td>
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<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture-laboratory. Focuses on resume writing techniques and filling out practice job applications.</td>
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<tr>
<td>ALTW 213</td>
<td>WORK ATTITUDES &amp; BEHAVIOR FOR THE DISABLED STUDENT 1 Unit</td>
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<tr>
<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture-laboratory. Designed to help the students develop appropriate work behavior and attitudes. Focuses on attitudes, fears, and expectations as they relate to work.</td>
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<tr>
<td>ALTW 214</td>
<td>JOB SEARCH SKILLS: THE INTERVIEW FOR THE DISABLED STUDENT 1 Unit</td>
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<tr>
<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture-laboratory. Focuses on interviewing techniques and the special problems faced by the disabled in seeking employment. The informational interview procedure will be explored through lectures and role-play.</td>
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<tr>
<td>ALTW 215</td>
<td>TRANSITION TO WORK FOR THE DISABLED STUDENT 1 Unit</td>
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<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture-laboratory. Prepare and evaluate personal, educational and vocational information for transition to work.</td>
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<tr>
<td>ALTW 216</td>
<td>DISABILITY &amp; THE LAW FOR THE DISABLED STUDENT 1 Unit</td>
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<tr>
<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture-laboratory. Understanding basic citizens' rights and responsibilities. Emphasis on the Americans with Disabilities Act.</td>
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<tr>
<td>ALTW 217</td>
<td>INTERMEDIATE COMPUTER APPLICATIONS FOR THE DISABLED STUDENT 3 Units</td>
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<tr>
<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture, two hours lecture-laboratory, two hours terminal time. Intermediate word processing, spreadsheet and file management skills for the disabled student. Emphasis on office applications needed for employment.</td>
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<tr>
<td>ALTW 218</td>
<td>CURRENT EVENTS FOR THE DISABLED STUDENT 1 Unit</td>
<td></td>
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<tr>
<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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</tr>
<tr>
<td>Two hours lecture-laboratory. Survey of current events for the disabled student.</td>
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<tr>
<td>ALTW 219</td>
<td>USING THE INTERNET FOR THE DISABLED STUDENT 1 Unit</td>
<td></td>
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<tr>
<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture-laboratory. Hands-on introduction and use of the Internet for the disabled student.</td>
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<tr>
<td>ALTW 220</td>
<td>BANKING SKILLS FOR THE DISABLED STUDENT 1 Unit</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours lecture-laboratory. Banking skills for the disabled student with emphasis on checking accounts.</td>
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<tr>
<td>ALTW 227</td>
<td>SKILLS LAB FOR THE DISABLED STUDENT .5 Unit</td>
<td></td>
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<tr>
<td>Prerequisite: Medically verified disability. Corequisite: Concurrent enrollment in another Transition to Work Program class. May be taken six times for credit.</td>
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<tr>
<td>One and one-half hours laboratory. Practical application of learning strategies, time management, organization and planning skills which are taught in Transition To Work classes.</td>
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<tr>
<td>ALTW 228</td>
<td>SPECIAL PROJECTS FOR THE DISABLED STUDENT 1 Unit</td>
<td></td>
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<tr>
<td>Prerequisite: Medically verified disability. May be taken two times for credit.</td>
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<tr>
<td>Two hours laboratory. Activity and discussion focused on a tailored, individualized project. Designed for the disabled student.</td>
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</tbody>
</table>
### ANTH 1 INTRODUCTION TO PHYSICAL ANTHROPOLOGY 4 Units

- **Four hours lecture.**
- Survey of the basic processes of evolution and investigation and their application to the development of modern humans. Impact of natural selection and genetics on development of new species. Evolutionary processes behind the physical and behavioral development of primates. History of the human lineage by reconstructing the fossil record, using investigations by paleoanthropologists, geologists, biologists, and archaeologists. Relationship between contemporary biology and behavior, facilitating an understanding of the affect of them upon future humankind. [CAN ANTH 2]

### ANTH 1L PHYSICAL ANTHROPOLOGY LABORATORY 1 Unit

- **One hour lecture-laboratory, two hours laboratory.**
- Introductory laboratory course focusing on scientific methodology to explore/experiment with topics from Anthropology lecture sections. Topics include Mendelian genetics, population genetics, human variability, forensics, medical anthropology, epidemiology, hominid dietary patterns, non-human primates, primate dental and skeletal anatomy, fossil hominids, chronometric dating, environmental challenges to hominids, environmental impact of hominid behavior, general methodologies utilized in physical anthropological research, and the general study of hominids as bio-culturally adapting animals.

### ANTH 2A CULTURAL ANTHROPOLOGY 4 Units

- **Four hours lecture.**
- Introduction to the study of human culture and the concepts, theories, and methods used in the comparative study of sociocultural systems. Subjects include subsistence, political organization, language, kinship, religion, social inequality, ethnicity, gender, and culture change. Anthropological perspectives to contemporary issues. [CAN ANTH 4]

### ANTH 2B PATTERNS OF CULTURE 4 Units

- **Four hours lecture.**
- Comparative study of patterns in culture using configurational, functional, structural, and evolutionary concepts. In-depth study of one culture living within the United States.

### ANTH 3 PREHISTORY: THE SEARCH FOR LOST CIVILIZATIONS 4 Units

- **Four hours lecture.**
- Origin and development of culture through various stages of the Paleolithic, Mesolithic and Neolithic. Development of culture in Africa, Asia and the New World correlated with human evolution. Techniques of tool-making, changes in tool styles, social organization, urbanization and the domestication of plants and animals.

### ADVERTISING

**Business & Social Sciences Division**  
(650) 949-7322  
www.foothill.edu/bss/

### ADVT 57 PRINCIPLES OF ADVERTISING 4 Units

- **Advisory: Not open to students with credit in BUSI 57.**
- **Four hours lecture.**
- Introduction to the relationship between advertising and society, the consumer and business. Analysis of markets and direction of advertising campaigns toward them. Selection of media. Evaluation and proper use of the creative aspects of advertising. Budgets. Actual creation of an advertising campaign.

### ALLIED HEALTH SCIENCES

**Biological & Health Sciences Division**  
(650) 949-7538  
www.foothill.edu/bio/

### AHS 200 ORIENTATION TO HEALTH CARE CAREERS 3 Units

- **Three hours lecture.**
- Orientation to Foothill College health care programs preparing students to differentiate among the health care professions and to enter the profession of their choice. Defining the American health care system. Discussion of professionalism, ethics, legal issues, death and dying, medical terminology, infection control, governmental regulations, cultural diversity, and academic skills, related to allied health careers.

### ANTHROPOLOGY

**Business & Social Sciences Division**  
(650) 949-7322  
www.foothill.edu/bss/

### ANTH 8 INTRODUCTION TO ARCHAEOLOGY 4 Units

- **Four hours lecture.**
- Introduction to the historical development, theory and techniques of archaeological research and fieldwork. Development of comparative approach to the study of ancient cultures. Focus on cultural resource management, survey and selection of field sites, dating, excavation, artifact classification, interpretation of data and written analysis. [CAN ANTH 6]

### ANTH 8L ARCHAEOLOGY LABORATORY 1 Unit

- **Three hours laboratory.**
- Laboratory methods and techniques of archaeology, including cataloging, care and analysis of artifacts, bone recognition, and archaeological excavation.

### ALTW 401 ELIGIBILITY ASSESSMENT FOR THE DISABLED STUDENT 0 Units

- **One hour laboratory.**
- Evaluation and assessment to determine eligibility for the Transition to Work (TTW) Program.

### ALTW 402 TRANSITION TO WORK ORIENTATION 0 Units

- **Formerly SPEH 400.**
- **Prerequisite: Medically verified disability.**
- **May be repeated six times for credit.**
- **One and one-half hours laboratory.**
- Orientation to the Transition to Work Program and campus policies, resources and services. Formulation of the Student Educational Contract (SEC).
ANTH 11B  ARCHAEOLOGY SURVEY  2 Units
Advisory: Previous or concurrent enrollment in ANTH 8 recommended.
May be taken three times for credit.
Six hours laboratory.
Introduction to field survey in archaeology. Emphasis on site identification, survey techniques and recording skills. All work is conducted at field sites.

ANTH 34  HONORS INSTITUTE SEMINAR IN ANTHROPOLOGY  1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in anthropology. Specific topics to be determined by the instructor.

ANTH 35  DEPARTMENT HONORS PROJECTS IN ANTHROPOLOGY  1 Unit
May be taken six times for credit.
One hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

ANTH 36  SPECIAL PROJECTS IN ANTHROPOLOGY  1 Unit
ANTh 36X  2 Units
ANTh 36Y  3 Units
ANTh 36Z  4 Units
Any combination of ANTH 36, 36X, 36Y, & 36Z may be taken for a maximum of six units.
One hour lecture.
Advanced readings, research and/or projects in anthropology. Specific topics determined in consultation with instructor.

ANTH 50  MEDICAL ANTHROPOLOGY: METHODS & PRACTICE  4 Units
Four hours lecture.
Cultural aspects of life and death, sickness and health. Theories of illness causation from varied world cultures and American sub-cultures. Attention to theories and practices of traditional field methodology.

APRENTICESHIP PROGRAMS
Foothill College offers apprenticeship training in the following trades: plumbing, pipefitting, refrigeration, heating and air-conditioning, sheet metal, electrician, residential electrician, sound and communication, ironworking, and elevator construction. Because of the unique relationship between on-the-job and classroom apprenticeship training, admission to apprenticeship classes is limited to apprentices registered with the California Division of Apprenticeship Standards. This limitation is authorized by Section 3074.3 of the State Labor Code. All classes meet at off-campus sites. For information, contact:

Plumbing, Pipefitting, Refrigeration, Heating and Air Conditioning
San Jose (408) 453-6330; Monterey (831) 633-6312
Sheet Metal
San Jose (408) 213-1712; San Francisco (415) 431-1676; San Leandro (510) 483-9035; San Mateo (650) 652-9672; Castroville (831) 633-6151
Electrician, Residential & Inside Wireman
San Jose (408) 453-1022; San Francisco (415) 587-2500
Elevator Construction
San Francisco (415) 285-2900
Sound & Communication
San Jose (408) 453-3101; San Francisco (415) 587-2500
Ironworking
Fresno (559) 497-1295

ARABIC
Language Arts Division  (650) 949-7250  www.foothill.edu/la/

ARBC 1  ELEMENTARY ARABIC  5 Units
Five hours lecture, two hours laboratory.
Development of elementary speaking, listening, reading and writing skills in everyday settings with Standard Arabic as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Arabic speaking countries.

ARBC 2  ELEMENTARY ARABIC  5 Units
Prerequisite: ARBC 1
Five hours lecture, two hours laboratory.
Continuation of ARBC 1. Oral practice to reinforce and broaden the functions presented in ARBC 1. Greater emphasis on oral presentations. Written practice to further understanding of the underlying grammatical and syntactical structures.

ARBC 3  ELEMENTARY ARABIC  5 Units
Prerequisite: ARBC 2
Five hours lecture, two hours laboratory.
Continuation of ARBC 1 and ARBC 2. Intensive oral and written practice to reinforce and broaden the functions presented in ARBC 1 and in ARBC 2. Greater emphasis on presentations and student generated discussions. Written and reading practice to further understanding of the underlying grammatical and syntactical structures.

ART
Fine Arts & Communication Division  (650) 949-7262  www.foothill.edu/fs/

ART 1  INTRODUCTION TO ART  4.5 Units
Four hours lecture, one and one-half hours laboratory.
An overview of painting sculpture and architecture from preHistory to the present emphasizing visual elements, design, artistic media and concepts.

ART 2A  ART HISTORY  4.5 Units
Four hours lecture, one and one-half hours laboratory.
History of Western art from PreHistory to ca. 1000; History of Ancient Art of Islam, India, China, Japan, the Americas, and Africa. Illustrated lectures and readings.
[CAN ART 2 = ART 2A+2B, CAN ART SEQ A = ART 2A+2B+2C]

ART 2AH  ART HISTORY-HONORS  4.5 Units
Four hours lecture, one and one-half hours laboratory.
History of Western art from PreHistory to ca. 1000; History of Ancient Art of Islam, India, China, Japan, the Americas, and Africa. Illustrated lectures and readings. The honors sections expand the primary sources for the student. In addition to the textbook, students have a reading list of sources (on reserve in the library). Lectures are more interactive and the student is expected to participate in group discussions. Exams are more exacting with an emphasis on the student being able to comfortably assimilate political, social, and economic factors into their analysis.
[CAN ART 2 = ART 2A+2B, CAN ART SEQ A = ART 2A+2B+2C]

ART 2B  ART HISTORY  4.5 Units
Four hours lecture, one and one half hours laboratory.
History of Western art from ca. 1000 through ca. 1600; History of Early American Art, Art of India after 1100; Chinese Art after 1280; Japanese Art after 1392; Art of the Americas after 1300. Illustrated lectures and readings.
ART 2BH  ART HISTORY-HONORS  4.5 Units
Four hours lecture, one and one-half hours laboratory.
History of Western art from ca. 1000 through ca. 1600; History of Early American Art, Art of India after 1100; Chinese Art after 1280; Japanese Art after 1392; Art of the Americas after 1300; Art of Pacific Cultures; Art of Africa in the Modern Era. [CAN ART 4 = ART 2B+2C, CAN ART 4 = ART 2B+2C, CAN ART SEQ A = ART 2A+2B+2C]

ART 2C  ART HISTORY  4.5 Units
Four hours lecture, one and one-half hours laboratory.
History of Western Art from ca. 1600 to the present; Art of the Americas after 1300; Art of Pacific Cultures; Art of Africa in the Modern Era. All assessment for the honors courses involves a greater emphasis on accessing and discussing primary source material. The research paper is also more exciting; students must provide a more extensive bibliography than for the regular series (2A,2B,2C) and the list of acceptable subjects is expanded. In addition, lectures and discussions move beyond the material covered by the text with the students required to read reserved texts in the library to broaden their grasp of the subject matter. [CAN ART 4 = ART 2B+2C, CAN ART SEQ A = ART 2A+2B+2C]

ART 2D  AFRICAN, OCEANIC & NATIVE AMERICAN ART  4.5 Units
Four hours lecture, one and one-half hours laboratory.
Survey of traditional arts of selected cultures from Africa, the Oceanic and Native America.

ART 2E  A HISTORY OF WOMEN IN ART  4 Units
Advisory: Not open to students with credit in WMN 15.
Four hours lecture.
A cross-cultural examination of art works and gender issues concerning women artists from the early Middle-Ages to the 21st century.

ART 3  MODERN ART & CONTEMPORARY THOUGHT  4.5 Units
Four hours lecture, one and one-half hours laboratory.
A study of art and architecture from Impressionism to the present day emphasizing the conceptual approach. Designed to relate contemporary artistic expression to modern thought.

ART 4A  INTRODUCTION TO DRAWING  3 Units
ART 4AX  1 Unit
Advisory: Students taking this course to satisfy the AA/AS General Education requirement or CSU GE in humanities must complete ART 4AX.
Six hours lecture-laboratory.
An introductory course in drawing to develop the ability to perceive and define shape, volume, space, and light both representationally and expressively using black and white media. [CAN ART 8 = ART 4A+4B]

ART 4B  INTERMEDIATE DRAWING  3 Units
Advisory: ART 4A.
Six hours lecture-laboratory.
Continuation of ART 4A with the use of color, and increased emphasis on developing composition and content. [CAN ART 8 = ART 4A+4B]

ART 4C  ADVANCED DRAWING  3 Units
ART 4CX  1 Unit
Advisory: ART 4B. Students taking this course to satisfy the CSU General Education requirement in humanities must complete ART 4CX.
May be taken two times for credit.
Six hours lecture-laboratory.
Continuation of ART 4B, with increased emphasis on textures spatial complexity, and development of individual expression.
### ART 11 INTRODUCTION TO MEXICAN ART & ARCHITECTURE
4 Units

Four hours lecture. 
A study of the influence of Spanish colonization and the impact on indigenous art and architecture. Emphasis on both the transformation of identity in art as a result of the cross cultural experience and the changing perceptions of culture on a local and global level. Emphasis on the similarities and differences of various cultural perspectives in art making beginning with Mexico and the United States.

### ART 12 INTRODUCTION TO ASIAN ART
4.5 Units

Four hours lecture, one and one-half hours laboratory. 
An introduction to the art of India, China and Japan from the Neolithic Age to the present, covering painting, sculpture, architecture and ceramics.

### ART 13 INTRODUCTION TO ISLAMIC ART
4.5 Units

Four hours lecture, one and one-half hours laboratory. 
The arts and architecture of the Islamic peoples from the seventh through the 17th Century.

### ART 14 AMERICAN ART
4.5 Units

Four hours lecture, one and one-half hours laboratory. 
A History of the culturally diverse arts produced in North America (specifically the United States) from prehistory to the present. American art is considered thematically and chronologically, focusing on the important influences on art of nature, landscape, urbanization, gender, race, religion, ethnicity, socio-economic and political reforms, and civil and international wars.

### ART 19A PAINTING
3 Units

Advisory: ART 4A or 5A; ART 4B or 20A. 
Six hours lecture-laboratory. 
Studio experiences in basic techniques of painting and composition using oil and/or acrylic paints. [CAN ART 10 = ART 19A+19B]

### ART 19B PAINTING
3 Units

Prerequisite: ART 19A. 
Six hours lecture-laboratory. 
Continuation of ART 19A. Further studies in studio techniques. [CAN ART 10 = ART 19A+19B]

### ART 19C PAINTING
3 Units

Advisory: ART 19B. 
May be taken two times for credit. 
Six hours lecture-laboratory. 
Advanced studio experiences in techniques of painting and composition using oil and/or acrylic paints.

### ART 19L PAINTING LABORATORY
1 Unit

Advisory: Pass/No Pass. 
Corequisite: Concurrent enrollment in ART 19A, 19B, or 19C. 
May be taken four times for credit. 
Three hours laboratory. 
Supervised studio practice in painting projects.

### ART 20A COLOR I
3 Units

Six hours lecture-laboratory. 
A fundamental course in color and its creative application.

### ART 20B COLOR II
3 Units

Prerequisite: ART 20A. 
Six hours lecture-laboratory. 
Continued practice in creative application of color theory.

### ART 35X SPECIAL PROBLEMS IN ART (HONORS)
1.5 Units

May be taken six times for credit. 
Four and one-half hours laboratory. 
Individual advanced projects in painting, drawing, sculpture, ceramics and photography.

### ART 36 HISTORY OF GRAPHIC DESIGN
4 Units

Advisory: Not open to students with credit in GID 1. Pass/No Pass. 
Four Hours lecture. 
A study of the development and interpretation of visual communication in line art, graphic design and illustration from cave painting to cyberspace. Issues in communication design are analyzed in the context of other creative disciplines, socio-political climates, diverse cultures and changing technology. Interpretation of current design trends, future directions and enrichment of communication ideas.

### ART 37A BEGINNING ETCHING
3 Units

Advisory: Not open to students with credit in GID 42. 
Six hours lecture-laboratory. 
Beginning techniques in printmaking, including embossing, monoprinting, chine colle, drypoint, softground, line etching, handcoloring, printing and the editioning of plates.

### ART 37B INTERMEDIATE ETCHING
3 Units

Prerequisite: ART 37A. 
Six hours lecture-laboratory. 
Continuation of ART 37A with introduction of further techniques including aquatint, sugarlift, photographic processes, and contemporary developments in the discipline.

### ART 37C ADVANCED ETCHING
3 Units

Prerequisite: ART 37B. 
May be taken two times for credit. 
Six hours lecture-laboratory. 
The application and exploration of techniques introduced in ART 37A and ART 37B toward the development of personal and expressive imagery and style.

### ART 39A BEGINNING SCREEN PRINTING
3 Units

Advisory: ART 4A or 5A. Not open to students with credit in GID 46. 
Six hours lecture-laboratory. 
An introduction to screen printing processes, exploring the basic techniques for making cut stencil designs and drawn stencil images.

### ART 39B PHOTOGRAPHIC SCREEN PRINTING
3 Units

Prerequisite: ART 39A or GID 46. 
Advisory: PHOT 1 or GID 74. 
Six hours lecture-laboratory. 
Introduction to photographic techniques in screen printing, working with computer generated or darkroom produced transparencies in stencil making.

### ART 39C SCREEN PRINTING PRACTICES
3 Units

Prerequisite: ART 39B. 
Six hours lecture-laboratory. 
A course for experienced students to explore combining the various techniques of screen printing in the development of images with strong formal and conceptual qualities. The printing of uniform editions and the presentation of final artwork will be discussed.

### ART 39L SCREEN PRINTING LABORATORY
.5 Unit

Corequisite: Concurrent enrollment in ART 39A, 39B, or 39C. 
May be taken six times for credit. 
Two hours supervised laboratory practices. 
Supervised studio practice in screen printing projects.

### ART 43 MOLD CONSTRUCTION FOR CERAMIC ART
3 Units

Prerequisite: ART 45A or 45B. 
Advisory: Concurrent enrollment in ART 45L or 45LX. 
Six hours lecture-laboratory. 
Studio practice in designing and constructing plaster molds for use in producing ceramic art works, making ceramic works from these molds and instruction in glazing.

### ART 43L CERAMICS LABORATORY
.5 Unit

Advisory: Pass/No Pass. 
Corequisite: Concurrent enrollment in ART 43. 
Two hours laboratory. 
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 43.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART 44</td>
<td>CERAMIC SCULPTURE</td>
<td>3</td>
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<tr>
<td>ART 45A</td>
<td>BEGINNING CERAMICS HANDBUILDING</td>
<td>3</td>
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<tr>
<td>ART 45A+45AX</td>
<td>CERAMICS LABORATORY</td>
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<td>ART 45B</td>
<td>BEGINNING CERAMICS POTTER'S WHEEL</td>
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<td>ART 45C</td>
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<tr>
<td>ART 45D</td>
<td>ADVANCED CERAMICS DECORATING TECHNIQUES</td>
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<tr>
<td>ART 45D+45AX</td>
<td>CERAMICS LABORATORY</td>
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<tr>
<td>ART 45D+45AX</td>
<td>LOW-TEMPERATURE CERAMIC FIRING &amp; GLAZING TECHNIQUES</td>
<td>3</td>
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<tr>
<td>ART 45D+45AX</td>
<td>ADVANCED CERAMICS DECORATING TECHNIQUES</td>
<td>3</td>
</tr>
<tr>
<td>ART 45D+45AX</td>
<td>CERAMICS LABORATORY</td>
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<td>ART 47</td>
<td>WATERCOLOR</td>
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<td>ART 49</td>
<td>MONOPRINTING</td>
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<td>ART 55</td>
<td>INTRODUCTION TO COMPUTER GRAPHICS</td>
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<tr>
<td>ART 66</td>
<td>THE ART OF SPAIN</td>
<td>4.5</td>
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</table>

Prerequisites and Corequisites:
- ART 45A
- Concurrent enrollment in ART 45A or 45B.
- May be taken two times for credit.
- Six hours lecture-laboratory.
- Studio practice in designing and creating original ceramic sculpture.

- ART 45B
- Concurrent enrollment in ART 45B.
- May be taken two times for credit.
- Two hours laboratory.
- Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 44.

- ART 45A+45AX
- Concurrent enrollment in ART 45A.
- May be taken two times for credit.
- Two hours laboratory.
- Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45A.

- ART 45B
- Concurrent enrollment in ART 45B.
- May be taken two times for credit.
- Six hours lecture-laboratory.
- An introduction to techniques of throwing on the potter's wheel and basic glazing.

- ART 45C
- Concurrent enrollment in ART 45C.
- May be taken two times for credit.
- Two hours laboratory.
- Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45C.

- ART 45D
- Concurrent enrollment in ART 45D.
- May be taken two times for credit.
- Two hours laboratory.
- Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45D.

- ART 45D+45AX
- Concurrent enrollment in ART 45D.
- May be taken two times for credit.
- Two hours laboratory.
- Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45D.

- ART 47
- Concurrent enrollment in ART 45D.
- May be taken two times for credit.
- Six hours lecture-laboratory.
- Studio practice in the glazing and firing of ceramic pieces using four low-temperature methods: electric kiln oxidation firing, lustre firing, raku firing and pit firing.

- ART 49
- Concurrent enrollment in ART 45D.
- May be taken two times for credit.
- Two hours laboratory.
- Supervised studio practice in ceramics processes, related to skills and materials of other ceramics courses in which the student is currently enrolled.

- ART 55
- Familiarity with computer operating systems, ART 4A or GID 70; ART 5A; PHOT 1 recommended.
- Not open to students with credit in ART 45C, 45D or 45L.
- Six hours lecture-laboratory.
- Studio practice in handbuilding and basic glazing.

- ART 66
- Concurrent enrollment in ART 45A.
- May be taken two times for credit.
- Six hours lecture-laboratory.
- Studio practice in ceramics processes, related to skills and materials being presented in ART 45A.

- ART 66
- Concurrent enrollment in ART 45B.
- May be taken two times for credit.
- Six hours lecture-laboratory.
- Studio practice in ceramics processes, related to skills and materials being presented in ART 45B.

- ART 66
- Concurrent enrollment in ART 45C.
- May be taken two times for credit.
- Six hours lecture-laboratory.
- Studio practice in ceramics processes, related to skills and materials being presented in ART 45C.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
ART 69  INTRODUCTION TO PRINTMAKING  3 Units
May be taken three times for credit.
Six hours lecture-laboratory.
Introduction to the basic processes of blockcut, intaglio, screen, mono- and mixed-media original prints. [CAN ART 20]

ART 70  KILN DESIGN, CONSTRUCTION & OPERATION  3 Units
Prerequisites: ART 45A or 45B.
Advisory: Concurrent enrollment in ART 45L or 45LX recommended.
Six hours lecture-laboratory.
Studio practice in designing and building ceramic kilns.

ART 72  STUDIO ART PORTFOLIO PREPARATION  3 Units
One hour lecture, five hours lecture-laboratory
Preparation, organization, and assembly of previous and current artwork to create a cohesive studio art portfolio. This course enables students and practicing artists the preparation in creating a professional portfolio for transfer into higher institutions, career opportunities, art exhibitions, art competitions, funding, or professional practice. Documenting work, writing artist statements, practice interviews, and assembling portable portfolios are included in this course.

ART 80  MURAL MAKING: COMMUNITY ART PROJECT  3 Units
Advisory: ART 4A or 15A, ART 19A, 20A.
Six hours lecture-laboratory.
Design and production of public mural projects. Exploration of History, cultural empowerment, identity and communication through sight specific public art. Studio experience in basic painting techniques and composition.

ART 83  SERVICE LEARNING PROJECTS  4 Units
Advisory: Completion of entry level design and software courses recommended.
May be taken three times for credit.
Six hours lecture-laboratory, three hours laboratory.
Fulfillment of work-related assignments for on-campus and off-campus not-for-profit organizations. Faculty coordinator helps the student apply skills learned in graphic arts courses to community-based projects. Disciplines include graphic design, photography and studio art.

ART 86  PAINTING WITH THE COMPUTER  3 Units
Advisory: Familiarity with computer operations recommended.
May be taken three times for credit.
Two hours lecture, three hours laboratory.
Basic instruction using computers and computer software to produce images for artistic expression and graphic design.

ART 87  ART OF THE ELECTRONIC AGE  2 Units
Two hours lecture.
Study of electronic art emphasizing the use of technological equipment, lasers, video, computers, photography, digital media, multimedia and communication technology for exhibition, installation, demonstration, research and performance art.

ART 190  DIRECTED STUDY  .5 Unit
ART 190X  1 Unit
ART 190Y  1.5 Units
ART 190Z  3 Units
Advisory: Pass/No Pass.
May be taken for a total of 18 units for credit.
One and one-half hours laboratory.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

ASTRONOMY

Physical Sciences, Mathematics & Engineering Division   (650) 949-7259
www.foothill.edu/ast/

ASTR 10A  GENERAL ASTRONOMY: SOLAR SYSTEM  5 Units
Advisory: Concurrent enrollment in ASTR 10L recommended.
Five hours lecture.
Non-technical introduction to astronomy, with emphasis on the planets, moons, and smaller bodies which make up our solar system, as well as the scientific search for life elsewhere in the universe. Topics include the nature of light, the atom, and telescopes, an examination of the planets and their moons and rings, the origin of the solar system, comets, asteroids, and meteors, catastrophic events (including the impact that may have killed the dinosaurs), the search for planets and life around other stars, the challenges of space travel, and modern views on extraterrestrial contact. No background in science or math is assumed.

ASTR 10B  GENERAL ASTRONOMY: STARS, GALAXIES & COSMOLOGY  5 Units
Advisory: Concurrent enrollment in ASTR 10L is recommended.
Five hours lecture.
Non-technical introduction to astronomy, with emphasis on stars, galaxies, and the origin and evolution of the universe. Topics covered include the nature of light, atoms, and telescopes; the birth, evolution, and death of stars (including an introduction to black holes); the Milky Way Galaxy and its development over time; normal galaxies, active galaxies, and cannibal galaxies; and the Big Bang model (of the origin and ultimate fate of the cosmos). No background in science or math is assumed.

ASTR 10BH  GENERAL ASTRONOMY: STARS, GALAXIES & COSMOLOGY: HONORS  5 Units
Advisory: Concurrent enrollment in ASTR 10L.
Corequisite: ASTR 34
Five hours lecture.
A non-technical introduction to astronomy, with an emphasis on stars, galaxies, and the origin and evolution of the universe, with additional material for honors students. Topics covered include the nature of light, atoms, and telescopes; the birth, evolution, and death of stars (including an introduction to black holes); the Milky Way Galaxy and its development over time; normal galaxies, active galaxies, and cannibal galaxies; and the Big Bang model (of the origin and ultimate fate of the cosmos.)

ASTR 10L  ASTRONOMY LABORATORY  1 Unit
Corequisite: ASTR 10A or 10B.
Two hours lecture-laboratory.
Hands-on approach to astronomical data and equipment. Students will do experiments and observing projects about star and constellation finding, the phases of the Moon, seasons, the rotation, revolution, and sphericity of the Earth, the nature of light, the validity of astrology, etc.

ASTR 34  HONORS INSTITUTE SEMINAR IN ASTRONOMY  1 Unit
Prerequisite: Membership in the Honors Institute.
Corequisite: ASTR 10A or 10B must be taken concurrently or previously.
One hour lecture.
A seminar in directed readings, discussions and projects in astronomy. Specific topics to be determined by the instructor.

ASTR 36  SPECIAL PROJECTS IN ASTRONOMY  1 Unit
ASTR 36X  2 Units
ASTR 36Y  3 Units
Any combination of ASTR 36, 36X, & 36Y may be taken for a maximum 18 units of credit.
Three hours laboratory.
A seminar in directed reading and discussion in astronomy. An opportunity to do astronomical research and observing at Foothill College Observatory.

ASTR 105  SEMINAR IN HANDS-ON ASTRONOMY  1 Unit
Corequisite: ASTR 10A or 10B must be taken concurrently or previously.
One hour lecture.
A seminar of discussions and projects in astronomy for those with an interest in pursuing it as an avocation, hobby, or special interest. Older adults are especially welcome in the course. Topics will include: constellation lore and constellation finding; Family Astronomy: doing astronomy with kids and grandkids; eclipses and eclipse chasing, astronomy’s influence on fiction, poetry, music, and films; astronomy and the big questions, such as black holes and time machines, what happened before the Big Bang, and the course of Cosmic Evolution.
BIOL 1A PRINCIPLES OF CELL BIOLOGY 6 Units
Prerequisite: CHEM 1A.
Advisories: Students taking the biology majors’ sequence (1A, 1B, 1C, 1D) are strongly advised to take the sequence in order and in its entirety.
Four hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.
An introduction to cellular structure and function, biological molecules, bioenergetics, the genetics of both prokaryotic and eukaryotic organisms, and elements of molecular biology. [CAN BIOL 2, CAN BIOL SEQ A = BIOL 1A+1B+1C]

BIOL 1B FORM & FUNCTION IN PLANTS & ANIMALS 6 Units
Prerequisite: BIOL 1A.
Advisory: Students taking the biology majors’ sequence (1A, B, C, D) are strongly advised to take the sequence in order and in its entirety.
Four hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.
An introduction to the structure and physiological processes of plants and animals. Transport systems, reproduction, digestion, gas exchange, regulation of the internal environment, responses to external stimuli, nervous systems, hormones, and locomotion. [CAN BIOL SEQ A = BIOL 1A+1B+1C]

BIOL 1C EVOLUTION, SYSTEMATICS & ECOLOGY 6 Units
Prerequisite: BIOL 1A.
Advisory: Students taking the biology majors’ sequence (1A, B, C, D) are strongly advised to take the sequence in order and in its entirety.
Four hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.
Principles of evolutionary theory, classification of organisms, and basic ecology. Phylogenetic survey of the major groups of organisms (bacteria, protistans, plants, animals and fungi) and their evolutionary history. [CAN BIOL SEQ A = BIOL 1A+1B+1C]

BIOL 1D MOLECULAR GENETICS 4 Units
Prerequisite: BIOL 1A.
Advisory: Students taking the biology majors’ sequence (1 A, B, C, D) are strongly advised to take the sequence in order and in its entirety. Students may choose to take Biology 1DL to obtain laboratory experience in this subject.
Four hours lecture.
An introduction to molecular biology with an emphasis in molecular genetics, cell communication, and developmental biology.

BIOL 1DL MOLECULAR GENETICS LABORATORY 2 Units
Prerequisite: BIOL 1A.
Advisory: Concurrent or prior enrollment in BIOL 1D.
Four hours lecture-laboratory.
Introduction to the biological laboratory techniques and methods used in molecular laboratory. Topics to include agarose gel electrophoresis, restriction enzyme digestion, transformation of cells, purification and analysis of DNA, PCR, and Southern blotting. Laboratory exercises will also reinforce scientific method, lab safety, applied problem solving, and fundamentals of instrumentation.

BIOL 8 BASIC NUTRITION 5 Units
Advisory: MATH 200; eligibility for ENG 1A.
Five hours lecture.
Basic principles of nutrition science. Biological function of nutrients. Nutritional needs throughout the life span. Relationship between nutrition and disease. Current scientific, social, and psychological issues and controversies in nutrition.

BIOL 9 ENVIRONMENTAL BIOLOGY 4 Units
Four hours lecture.
An introduction to environmental biology and a survey of the biological and ecological principles needed to understand environmental issues. Global, national and local perspectives on current issues such as resource use, pollution, biodiversity and impacts of human population growth.

BIOL 12 HUMAN GENETICS 4 Units
Four hours lecture.
An introduction to the nature of human inheritance. The molecular basis of inheritance, Mendelian genetics, and population genetics; factors affecting human diversity and the social and moral implications of recent advances in genetics.

BIOL 13 MARINE BIOLOGY 5 Units
Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.
An introduction to biology using marine animals, plants and ecosystems. Major emphasis given to the ecology and conservation issues with examples drawn from California marine life. Conceptual development of seashore, estuaries, coral reefs, kelp forests, and pelagic life as interrelated ecosystems.

BIOL 14 HUMAN BIOLOGY 5 Units
Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.
An introduction to biology using human beings as the exemplary organism. The evolution and biological unity of the human species and of all life forms; American and global patterns of human biological diversity; reproduction and heredity; how human organ systems function; humans and their environment; the uses and misuses of the scientific method; the scientific and biological bases for human equality.

BIOL 15 CALIFORNIA ECOLOGY/NATURAL HISTORY 5 Units
Four hours lecture, one hour lecture-laboratory, two hours laboratory, all-day field trips.
An introduction to ecology, natural History and field biology through the study, largely in an outdoor setting, of the plants and animals of the San Francisco Bay area.

BIOL 17 BIOTECHNOLOGY & SOCIETY 4 Units
Four hours lecture.
Introduction to the scientific principles and techniques of biotechnology, including recombinant gene technology and gene cloning, recombinant protein design, applications of immunological techniques to biotechnology. Discussion of technical, ethical and safety concerns presented by medical, agricultural, pharmaceutical and forensic applications of biotechnology.

BIOL 34 HONORS INSTITUTE SEMINAR IN BIOLOGY 1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in biology. Specific topics to be determined by the instructor.
BIOL 35 DEPARTMENT HONORS PROJECTS IN BIOLOGY 1 Unit
BIOL 35X 2 Units
Any combination of BIOL 35 & 35X may be taken a maximum of six times for credit.

Three hours laboratory.
Advanced readings, research and/or laboratory projects in Biology. Specific topics must be determined in consultation with instructor. Laboratory projects must be designed during one quarter and performed during a second quarter.

BIOL 40A HUMAN ANATOMY & PHYSIOLOGY 5 Units
Advisory: High school biology or BIOL 10 or equivalent; high school chemistry or CHEM 30A or equivalent. Critical reading skills and knowledge of English sentence structure and ability to comprehend spoken English in academic context; or ESL 25 and 165; BIOL 40A, 40B and 40C be taken in sequence. Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.

Basic human anatomy and physiology. Emphasis on integration of systems and homeostatic mechanisms. Physical and chemical basis of life, histology and integumentary, skeletal and muscular systems. Designed for majors that require fundamental background in human anatomy and physiology. [CAN BIOL SEQ B = BIOL 40A+40B+40C]

BIOL 40B HUMAN ANATOMY & PHYSIOLOGY 5 Units
Advisory: BIOL 40A; Critical reading skills and knowledge of English sentence structure, and ability to comprehend spoken English in academic context; or ESL 25 and 165. Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.

A continuation of BIOL 40A. Anatomy and physiology of the nervous system, cardiovascular system and respiratory system. [CAN BIOL SEQ B = BIOL 40A+40B+40C]

BIOL 40C HUMAN ANATOMY & PHYSIOLOGY 5 Units
Advisory: BIOL 40B; critical reading skills and knowledge of English sentence structure and ability to comprehend spoken English in academic context; or ESL 25 and 165; BIOL 40A, 40B and 40C be taken in sequence. Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.

A continuation of BIOL 40B. Anatomy and physiology of the lymphatic system; endocrine system; digestive system; metabolism; urinary system; fluid, electrolyte and acid/base balance, and the reproductive system. [CAN BIOL SEQ B = BIOL 40A+40B+40C]

BIOL 41 MICROBIOLOGY 6 Units
Prerequisite: High school chemistry or CHEM 30A. Advisory: ESL 25 and 165 recommended. Critical reading skills and knowledge of English sentence structure, and ability to comprehend spoken English in academic context.
Four hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.

Morphology and physiology of bacteria, fungi and viruses. Mechanisms of pathogenicity, host-parasite relationships, the immune response and principles of disease transmission. Techniques of microbial control including sterilization, aseptic procedures, use of disinfectants, antisepsics and chemotherapy. [CAN BIOL 14]

BIOL 45 INTRODUCTION TO HUMAN NUTRITION 4 Units
Prerequisite: CHEM 30A, or 1 year of high school chemistry, and BIOL 40A, 40B, and 40C (BIOL 40C may be taken concurrently). Advisory: ENGL 1A or ESL 26. Four hours lecture.

Introduction to the medical aspects of nutrition. Biological function and chemical classification of nutrients. Nutritional needs throughout the lifespan. Effects of nutritional deficiencies and excesses. Recommended nutrient intakes and the role of diet in the development of chronic disease. [CAN FCS 2]

BIOL 46 FUNDAMENTALS OF PHARMACOLOGY 4 Units
Prerequisite: CHEM 30B, and BIOL 40A, 40B, 40C (BIOL 40C may be taken concurrently). Advisory: ENGL 1A or ESL 26. Four hours lecture.

General principles of pharmacology with emphasis on drug-receptor interactions, second messenger systems, determinants of drug response, pharmacokinetics, bio transformation and excretion, pharmacogenetics, drug development and legal aspects of drug distribution. Pharmacology of the autonomic nervous system. Application of pharmacological principles and concepts with emphasis on the various pharmacological classes of drugs in diverse patient populations.

BIOL 47 ADVANCED TOPICS IN HUMAN NUTRITION 5 Units
Advisory: BIOL 45 and CHEM 30A recommended. Critical reading skills and knowledge of English sentence structure, and ability to comprehend spoken English in academic context; or ESL 25 and 165. Four hours lecture, two hours laboratory.

Understanding and performing advanced food and nutrition research. Focus on topics related to public health, disease prevention, and chronic disease management.

BIOL 48 PATHWAYS IN PHARMACOLOGY 4 Units
Prerequisites: BIOL 46 and BIOL 47. Advisory: BIOL 48 and BIOL 64 are interchangeable. Four hours lecture-laboratory.

Understanding, using, and applying pharmacological concepts in a research or industrial setting. Focus on specific pathways and mechanisms of drug action.

BIOL 49 ADVANCED TOPICS IN HUMAN NUTRITION 5 Units
Advisory: BIOL 45 and CHEM 30A recommended. Critical reading skills and knowledge of English sentence structure, and ability to comprehend spoken English in academic context; or ESL 25 and 165. Four hours lecture, two hours laboratory.

Understanding and performing advanced nutrition research. Focus on topics related to public health, disease prevention, and chronic disease management.

BIOL 60 HUMAN PHYSIOLOGY 4 Units
Advisory: High school biology or BIOL 10 or equivalent; high school chemistry, biology, and algebra recommended. Four hours lecture.

Understanding and performing physiology research. Focus on specific physiological mechanisms and their implications for human health.

BIOL 61 ADVANCED TOPICS IN HUMAN NUTRITION 5 Units
Advisory: BIOL 45 and CHEM 30A recommended. Critical reading skills and knowledge of English sentence structure, and ability to comprehend spoken English in academic context; or ESL 25 and 165. Four hours lecture, two hours laboratory.

Understanding and performing advanced nutrition research. Focus on topics related to public health, disease prevention, and chronic disease management.
BIOL 69 BASIC MAMMALIAN CELL CULTURE TECHNIQUES 2 Units
Prerequisites: Laboratory experience (high school and/or professional). Advisory: BIOL 69 and BTEC 69 are interchangeable. High school biology, chemistry, algebra. May be taken two times for credit.
Four hours lecture-laboratory. Introduction to general mammalian cell culture techniques, including media preparation, sterile technique, freezing, thawing, and maintaining primary cells and cell lines. Theoretical considerations will include purpose and selection of media components, setting up and maintaining a sterile cell culture environment, and controlling contamination. Students will gain practical experience working in the laminar flow hood, counting cells, isolating cells from a primary source, and maintaining healthy adherent and suspension cells in culture. Emphasis will also be given to proper care and use of equipment used in a cell culture facility: laminar flow hoods, CO₂ incubators, water baths, and the inverted microscope.

BIOL 71 DNA SEQUENCING & BIOINFORMATICS: BASIC LABORATORY TECHNIQUES 2 Units
Prerequisites: Laboratory experience (high school and/or professional experience).
Advisory: BIOL 71 and BTEC 71 are interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit.
Four hours lecture-laboratory. Understanding, using and performing DNA sequencing and cloning techniques in a research and production setting. Includes applications of CDNA and PCR product sequencing, historical and theoretical basis of conventional and automated DNA sequencing, experimental design of sequencing methods, oligonucleotide synthesis, construction of sequencing and expressions plasmids, and vectorology. Laboratory exercises will involve DNA and RNA manipulation using established protocols and computer assisted methods (bioinformatics).

BIOL 72 HPLC: BASIC LABORATORY TECHNIQUE II 2 Units
Prerequisites: High School biology, chemistry and algebra; laboratory experience, successful completion of BTEC 66 or equivalent experience.
Advisory: BIOL 72 and BTEC 72 are interchangeable. Four hours lecture-laboratory. Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.

BIOL 73 HISTOTECHNOLOGY TECHNIQUES & TISSUE IDENTIFICATION: DISEASES, FORENSICS/COLD CASES, MUSEUM CASES 1 Unit
Prerequisites: Laboratory experience (high school and/or professional experience).
Advisory: BIOL 73 and BTEC 73 interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit.
Two hours lecture-laboratory. Introduction to basic histotechnology techniques, including fixation, processing, embedding, sectioning, and staining. Hands-on experience with microtomy techniques for thin and thick sectioning. How histotechnology aids in disease detection, including diseased museum specimens, and aids in solving Forensics/Cold Cases will be discussed. Areas of interest Include: Immunology, Vascular pathology, Osteopathology, Plastics, DNA/RNA and Mitochondria Testing. Emphasis will be placed on histotechnology as a diagnostic tool used by Pathologists/Coroners/ Medical Examiners and Forensic Investigators (Federal, State and County). Safety in the laboratory and ergonomic considerations will be discussed along with an understanding of equipment maintenance.

BIOL 74 OVERVIEW OF REGULATORY AFFAIRS 1 Unit
Advisory: BIOL 74 and BTEC 74 are interchangeable. May be taken two times for credit.
Two hours lecture-laboratory. The scope and basic understanding of the regulations and skills needed in the Regulatory Affairs Profession. Overview of Food and Drug Administration (FDA) History, structure and operations; the regulatory domestic process and global perspectives. Focus will be on drugs, devices and biologics including clinical study requirements.

BIOL 75 POLYMERASE CHAIN REACTION: BASIC LABORATORY TECHNIQUE 1 Unit
Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra. Advisory: BIOL 75 and BTEC 75 are interchangeable. May be taken two times for credit.
Two hours lecture-laboratory. Understanding, using and performing PCR in a research or industrial setting. Includes the molecular and physical basis of the technique, mechanisms and practical (research and analytical) applications, RT-PCR, product separation and detection, thermocyclers, primers, practical experience with reagents and instrumentation for PCR, following established protocols.

BIOL 77 IMMUNOBIOLOGY BASIC LABORATORY THEORY 2 Units
Prerequisites: Laboratory experience. Advisory: BIOL 77 and BTEC 77 are interchangeable. High School biology, chemistry, and algebra recommended. May be taken two times for credit.
Two hours lecture. Understanding immunobiology in relation to biotechnology. Introduction to molecular pathways associated with the human immune system. Inflammation, apoptosis, hemopoiesis, cellular activation, cellular genetics, signal transduction, and molecular classification in relation to current research in immunology. Discussion of current research trends in biotechnology with respect to the biology of the immune system.

BIOL 78 INTRODUCTION TO MICROARRAY DATA ANALYSIS 2 Units
Prerequisites: BTEC 51A and MATH 10 (or their equivalents).
Advisory: BIOL 78 and BTEC 78 are interchangeable. May be taken two times for credit.
Two hours lecture, two hours computer laboratory.
This course is an introduction to the analysis of gene expression data using DNA microarrays (GeneChip® technology). Topics covered include: an overview of DNA microarrays, setting up microarray experiments, the essential algorithms, industry portals (The NetAffx™ Analysis Center) and hands on experience on the GeneSpring® software. Successful completion of Cell Biology and Statistics is strongly recommended. This course is organized in modules, each of which deals with a specific topic in gene expression analysis.

BIOL 79A BIOLOGY EXPERIENTIAL INTERNSHIP 4 Units
Prerequisite: Acceptance into the FHDA Internship Program. May be taken six times for credit.
Off-campus supervised experiential education of Biology students in laboratory or technology support environment. Opportunity for practical application of knowledge, skills and abilities acquired in Biology and related course work. Opportunity for additional hands-on training in all aspects of biologically laboratory related and/or technology support skills. Exposure to varied protocols, methodologies and practices in a professional research environment.
Introduction to molecular biology. Topics to include organization of the genome, fundamentals of instrumentation, lab safety, importance of laboratory notebooks, applied problem solving, and technologies used in recombinant DNA technology. Laboratory exercises will also reinforce scientific method, lab safety, importance of laboratory notebooks, applied problem solving, and fundamentals of instrumentation.

BTEC 53A IMMUNOLOGY FOR BIOTECHNOLOGY 3 Units

Prerequisites: BTEC 52A.
Three hours lecture.

Introduction to immunology. Topics to include the structure, function, and development of the immune system, regulation of the immune response, diseases of the immune system, vaccines, cancer, immunological techniques used in industry.

BTEC 53AL IMMUNOLOGY & VIROLOGY LABORATORY 5.5 Units

FOR BIOTECHNOLOGY

Prerequisite: BTEC 52AL.
Corequisite: Concurrent enrollment in BTEC 53A.

Two hours lecture, ten hours laboratory.

Introduction to the biological laboratory techniques and methods used in immunology. Topics to include the use of antibodies (ELISA, Western blot, immunofluorescence) in the lab, mammalian cell culture, and antibody production using hybridoma technology. Laboratory exercises will also reinforce scientific method, lab safety, importance of laboratory notebooks, applied problem solving, and fundamentals of instrumentation.

BTEC 54 BIOTECHNOLOGY EXTERNSHIP 4 Units

Prerequisites: Completion of BTEC 52A & 52AL.
Corequisite: Concurrent enrollment in BTEC 53A & 53AL.

Twenty-four hours laboratory.

Externship for Spring Quarter Biotechnology Technician Program students, arranged at biotechnology, pharmaceutical, instrumentation companies and research facilities. Provides applied learning experience in several diverse employment situations including, but not limited to, the areas of production, research and development, manufacturing and quality control.

BTEC 55 LABORATORY SAFETY 3 Units

Three hours lecture.

Lab safety issues needed to function in a laboratory setting. This is to include biological hazards, chemical hazards, and radiological hazards and radiological hazards in the context of NIH/CDC guidelines and OSHA regulations.

BTEC 56X DIRECTED STUDY 1 Unit

BTEC 56Y 2 Units
BTEC 56Z 3 Units

Advisory: Pass/No Pass.

Any combination of BTEC 56X, 56Y & 56Z may be taken for a maximum of nine units.

Three hours laboratory for each unit of credit.

Advanced research and/or project in biotechnology. The specific topic must be determined in consultation with the instructor.

BTEC 57A VIROLOGY FOR BIOTECHNOLOGY 3 Units

Prerequisite: BTEC 52A.
Corequisite: concurrent enrollment in BTEC 53A

Three hours lecture.

Introduction to virology. Topics to include the structure and function of viruses, viral diseases, vaccines, cancer, and the use of viruses in the biotechnology industry.

BTEC 58 PRINCIPLES OF BIOTECHNOLOGY/ BIOMANUFACTURING 4 Units

Prerequisite: BTEC 51A.

Four hours lecture.

This course covers topics important in the development, production, recovery, and analysis of products produced by biotechnology. The course traces the path of a drug or biologic from the cell through the production facility, the final processing, analysis of products produced by biotechnology. The course traces the path of a drug or biologic through the production facility, the final processing, and into the human body. It discusses the growth characteristics of the organisms used to produce pharmaceutical proteins, the techniques used in product recovery, and the techniques used in product analysis.
BTEC 59 BUSINESS & REGULATORY PRACTICES IN BIOTECHNOLOGY/BIOMANUFACTURING

Four hours lecture.
This course examines how basic business principles and sound manufacturing procedures assure the quality and safety of a product as the manufacturing team moves a product down the biotechnology production pipeline. It explores the role of governmental oversight and regulation during the discovery, development, and manufacturing of new products produced by biotechnology.

BTEC 61 MICROBIAL BIOTECHNOLOGY

Prerequisites: BTEC 51A & 51AL.
Two hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.
Introduction to microbiology with an emphasis on a practical approach to the utilization of microorganisms in biotechnology. Topics to include the current status of microbial biotechnology and potential contributions within a variety of fields, the genetic and biochemical diversity of microorganisms, their classification and metabolism, methods used to create engineered microorganisms, and the most widely exploited attributes of engineered microorganisms.

BTEC 62 CELL CULTURE & PROTEIN RECOVERY/BIOMANUFACTURING

Prerequisites: BTEC 51A.
Two hours lecture, nine hours laboratory.
This course teaches the skills needed to serve as a technician in biotechnology production. Students grow and monitor bacterial, yeast, and mammalian cells on a laboratory scale that emulates the large-scale production used in industry. Students will become familiar with the cleaning, sterilization, aseptic inoculation, operation, and monitoring of fermenters and bioreactors. Students then recover and purify proteins produced by those cell cultures. They recover and purify proteins using centrifugation, ultrafiltration, and chromatography techniques. The course emphasizes the use of current Good Manufacturing Practices (cGMP), and students gain experience following Standard Operating Procedures (SOP).

BTEC 63 BIOTECHNOLOGY INSTRUMENTATION: QUALITY CONTROL ENGINEERING

Prerequisites: BTEC 51A.
Two hours lecture, nine hours laboratory.
This course familiarizes students with small scale laboratory practices, both those used in a research laboratory and those used by a quality control department in industry, to analyze the quality of a cell culture process and the purity of protein products produced by cells in culture. The course emphasizes the use of Good Laboratory Practices (GLP) in these analyses. Students will gain experience in techniques used to analyze nucleic acids and in the genetic engineering of cells. They will also gain experience with the common assays used in Quality Control including electrophoresis, High Performance Liquid Chromatography (HPLC), Enzyme Linked Immunosorbant Assay (ELISA), and Polymerase Chain Reaction (PCR) to test products generated using cell culture.

BTEC 64 PROTEIN ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE

Prerequisites: Laboratory experience (high school and/or professional experience).
Advisory: BTEC 64 and BIOL 64 are interchangeable.
High school biology, chemistry, algebra recommended.
May be taken two times for credit.
Two hours lecture-laboratory.
Understanding, using, and performing electrophoretic separations and transfers in a research or industrial setting. This is to include the molecular and physical basis of specific techniques, and their practical applications. Techniques covered will include gel electrophoresis, capillary electrophoresis, isoelectric focusing, 2D gels and electrotransfers. The applications of these techniques for proteins, carbohydrates and small molecules, within research and industry will be presented. The instrumentation used for electrophoresis, isoelectric focusing, and capillary electrophoresis and practical experience with reagents and instrumentation will be emphasized. Students will follow established protocols, and demonstrate an understanding of supporting routine operations and standard protocols.

BTEC 65 NUCLEIC ACIDS ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE

Prerequisites: Laboratory experience (high school and/or professional experience).
Advisory: BTEC 65 and BIOL 65 are interchangeable.
High school biology, chemistry, algebra recommended.
May be taken two times for credit.
Two hours lecture-laboratory.
Understanding, using, and performing electrophoretic separations and transfers in a research or industrial setting. This is to include the molecular and physical basis of specific techniques, and their practical applications. Techniques covered will include gel electrophoresis, capillary electrophoresis and electrotransfers. The applications of these techniques for proteins, and small molecules, within research and industry will be presented. The instrumentation used for electrophoresis, capillary electrophoresis, and pulsed gel electrophoresis and practical experience with reagents and instrumentation will be emphasized. Students will follow established protocols, and demonstrate an understanding of supporting routine operations and standard protocols.

BTEC 66 HPLC: BASIC LABORATORY TECHNIQUE

Prerequisites: High School biology, chemistry and algebra; laboratory experience.
Advisory: BTEC 66 and BIOL 66 are interchangeable.
May be taken two times for credit.
Four hours lecture-laboratory.
Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.

BTEC 67 IMMUNOLOGICAL ASSAYS

Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra.
Advisory: BTEC 67 and BIOL 67 are interchangeable.
May be taken two times for credit.
Two hours lecture-laboratory.
Understanding and performing immunological assays. Includes the theory, molecular basis, and research/diagnostic applications of several techniques. Techniques covered will include, direct, indirect, sandwich, and quantitative ELISAs, and Western blotting. Practical experience with reagents (selection of conjugated antibodies, detection systems) and instrumentation (microtiter plate reader, polyclarlamide gel electrophoresis apparatus, transfer apparatus) will be emphasized.

BTEC 68 POLYMERASE CHAIN REACTION: BASIC LABORATORY TECHNIQUE

Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra.
Advisory: BTEC 68 and BIOL 78 are interchangeable.
May be taken two times for credit.
Two hours lecture-laboratory.
Understanding, using and performing PCR in a research or industrial setting. Includes the molecular and physical basis of the technique, mechanisms and practical (research and analytical) applications, RT-PCR, product separation and detection, thermocyclers, primers, practical experience with reagents and instrumentation for PCR, following established protocols.

BTEC 69 BASIC MAMMALIAN CELL CULTURE TECHNIQUES

Prerequisites: Laboratory experience (high school, college and/or professional).
Advisory: High school chemistry, biology, algebra recommended.
May be taken two times for credit.
Four hours lecture-laboratory.
Introduction to general mammalian cell culture techniques, including media preparation, sterile technique, freezing, thawing, and maintaining primary cells and cell lines. Theoretical considerations will include purpose and selection of media components, setting up and maintaining a sterile cell culture environment, and controlling contamination. Students will gain practical experience working in the laminar flow hood, counting cells, isolating cells from a primary source, and maintaining healthy adherent and suspension cells in culture. Emphasis will be given to proper care and use of equipment used in a cell culture facility: laminar flow hoods, CO2 incubators, water baths, and the inverted microscope.
BTEC 70  **MONOCLONAL ANTIBODY PRODUCTION: HYBRIDOMA TECHNOLOGY**
1 Unit

**Prerequisites:** Laboratory experience (high school, college and/or professional). Advisory: BTEC 70 and BIOL 80 are interchangeable. BTEC 53A, BTEC 69 and animal cell culture experience. High school chemistry, biology, algebra. May be taken two times for credit.

- **Two hours lecture-laboratory.**
- Production of monoclonal antibodies by hybridoma technology. Course will include theoretical discussion of therapeutic and diagnostic uses of antibodies, sterile technique, hybridoma production, selection, and cell cloning. Students will gain practical experience of hybridoma technology by performing a cell fusion, screening and selecting positive hybridomas, and cloning cells to isolate monoclonal antibodies. A brief discussion of the ELISA (enzyme-linked immunosorbent assay) will be included.

BTEC 71  **DNA SEQUENCING & BIOINFORMATICS: BASIC LABORATORY TECHNIQUES**
2 Units

**Prerequisites:** Laboratory experience (high school and/or professional experience). Advisory: BTEC 71 and BIOL 71 are interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit.

- **Four hours lecture-laboratory.**
- Understanding, using and performing DNA sequencing and cloning techniques in a research and production setting. Includes applications of cDNA and PCR product sequencing, historical and theoretical basis of conventional and automated DNA sequencing, experimental design of sequencing methods, oligonucleotide synthesis, construction of sequencing and expressions plasmids, and vectorology. Laboratory exercises will involve DNA and RNA manipulation using established protocols and computer assisted methods (bioinformatics).

BTEC 72  **HPLC: BASIC LABORATORY TECHNIQUE II**
2 Units

**Prerequisites:** High School biology, chemistry and algebra; laboratory experience, successful completion of BTEC 66 or equivalent experience. Advisory: BTEC 72 and BIOL 72 are interchangeable.

- **Four hours lecture-laboratory.**
- Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.

BTEC 73  **HISTOTECHNOLOGY TECHNIQUES & TISSUE IDENTIFICATION: DISEASES, FORENSICS/COLD CASES, MUSEUM CASES**
1 Unit

**Prerequisites:** Laboratory experience (high school and/or professional experience). Advisory: BTEC 73 and BIOL 73 are interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit.

- **Two hours lecture-laboratory.**
- Introduction to basic histotechnology techniques, including fixation, processing, embedding, sectioning, and staining. Hands-on experience with microscopy techniques for thin and thick sectioning. How histotechnology aids in disease detection, including diseased museum specimens, and aids in solving Forensics/Cold Cases will be discussed. Areas of interest include: Immunology, Vascular pathology, Osteopathology, Plastics, DNA/RNA and Mitochondria Testing. Emphasis will be placed on histotechnology as a diagnostic tool used by Pathologists/Coroners/Medical Examiners and Forensic Investigators (Federal, State and County). Safety in the laboratory and ergonomic considerations will be discussed along with an understanding of equipment maintenance.

BTEC 74  **OVERVIEW OF REGULATORY AFFAIRS**
1 Unit

**Advisory:** BTEC 74 and BIOL 74 are interchangeable. May be taken two times for credit.

- **Two hours lecture-laboratory.**
- The scope and basic understanding of the regulations and skills needed in the Regulatory Affairs Profession. Overview of Food and Drug Administration (FDA) History, structure and operations: the regulatory domestic process and global perspectives. Focus will be on drugs, devices and biologics including clinical study requirements.

BTEC 75  **IMMUNOBIOLOGY: BASIC LABORATORY THEORY**
2 Units

**Prerequisite:** Laboratory experience. Advisory: BTEC 75 and BIOL 75 are interchangeable. High School biology, chemistry, and algebra recommended. May be taken two times for credit.

- **Two hours lecture.**
- Understanding immunobiology in relation to biotechnology. Introduction to molecular pathways associated with the human immune system. Inflammation, apoptosis, hematopoiesis, cellular activation, cellular genetics, signal transduction, and molecular classification in relation to current research in immunology. Discussion of current research trends in biotechnology with respect to the biology of the immune system.

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All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008  www.foothill.edu
BUSI 35  DEPARTMENT HONORS
PROJECTS IN BUSINESS  1 Unit
Formerly: BUSI 55
May be taken six times for credit.
One hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

BUSI 53  SURVEY OF INTERNATIONAL BUSINESS  4 Units
Advisory: Not open to students with credit in BIS 53.
Four hours lecture.
Introduction to the global commercial community, theory and practice. Exploration of trade and development with the Pacific Rim, Eastern/Western Europe, Third World and developing nations. Major economic, social, political, cultural forces directing the competitive business environment. Examination of the full range of international commercial activities, marketing, logistics, research, risk analysis, and global corporate ethics and social responsibility.

BUSI 57  PRINCIPLES OF ADVERTISING  4 Units
Advisory: Not open to students with credit in ADVT 57.
Four hours lecture.
Introduction to the relationship between advertising and society, and consumer and business. Analysis of markets and direction of advertising campaigns toward them. Selection of media. Evaluation and proper use of the creative aspects of advertising. Budgets. Actual creation of an advertising campaign.

BUSI 58  SURVEY OF INTERNATIONAL MARKETING  4 Units
Advisory: Not open to students with credit in BIS 58.
Four hours lecture.
Contemporary developments of international marketing functions, concepts and business activities that determine global customer demand for products and services.

BUSI 59  PRINCIPLES OF MARKETING  4 Units
Four hours lecture.
Contemporary marketing developments and applications relative to business activities that determine customer demand for products and services. Focus on market planning strategy, determining the right product, price, distribution and promotion elements and evaluating the results of effective marketing decision-making from both a marketer's and a consumer's perspective.

BUSI 61  INVESTMENT FUNDAMENTALS  3 Units
Three hours lecture.

BUSI 62  PRINCIPLES OF SALESMANSHIP  3 Units
Three hours lecture.
The principles and techniques of selling ideas, products, services. Focus on persuasive activities, buying behavior, communication, ethics. Combines an emphasis on the art of selling with providing effective customer service.

BUSI 64  SPECIAL PROJECTS IN BUSINESS  1 Unit
BUSI 64X  2 Units
BUSI 64Y  3 Units
BUSI 64Z  4 Units
Any combination of BUSI 64, 64X, 64Y & 64Z may be taken for a maximum of six units.
One hour lecture.
Advanced readings, research, and/or project in business. Specific topics determined in consultation with instructor.

BUSI 91L  INTRODUCTION TO BUSINESS INFORMATION PROCESSING  4 Units
Formerly: BUSI 10
Three hours lecture, two hours laboratory.
Knowledge and understanding of business uses of computer and information processing. Introduction to computer hardware and software and popular operating systems. Hands-on experience in the use of word processing software, spreadsheet software, presentation graphics software, database software and communications software.

BUSI 92  FINANCIAL PLANNING PRACTICES  4 Units
Four hours lecture.
Examination of financial and retirement planning, mutual funds, real estate, bonds, cash equivalents, gold, stock, tax-free income, sources of investment help, advisory services.

BUSI 95  SMALL BUSINESS MANAGEMENT  3 Units
Three hours lecture.
Creating, managing and profiting from a small business. For potential or present entrepreneurs. Emphasis on organization and operation of a small business, including problems of raising capital, establishing an effective marketing plan, and directing and motivating employees.

BUSI 95E  SMALL BUSINESS EXPORT & IMPORT  3 Units
Advisory: Not open to students with credit in BIS 95E.
Three hours lecture.
Challenges and opportunities of world trade through small business exporting and importing. The basic mechanisms, market analysis, pricing, financing, marketing, insurance, transportation and distribution of exports/imports. Expert assistance and resources.

BUSI 97  MANAGEMENT SEMINAR  .5 Unit
BUSI 97X  1 Unit
BUSI 97Y  1.5 Units
BUSI 97Z  3 Units
Advisory: Pass/No Pass.
Any combination of BUSI 97, 97X, 97Y & 97Z, may be taken for a maximum of 6 units.
One hour lecture for each unit of credit.
In-depth exposure to specific management theories and processes and the various leaders in the field. See Schedule of Classes for specific topics being offered.

BUSI 99  INVESTMENT ANALYSIS  3 Units
Three and one-half hours lecture.

BUSI 99A  INVESTMENT ANALYSIS 3 Units
Three and one-half hours lecture.

BUSI 102  PRACTICAL PERSONAL FINANCE  1 Unit
Two hours lecture-laboratory.
How to structure portfolios of stocks, bonds, mutual funds, real estate, cash equivalents. Discussions of tax-free income, gold, collectibles, and other investment instruments. Examination of financial, estate and retirement planning, sources of investment help, advisory services, asset allocation and tax and investment strategies. Expert guest speakers employed throughout the course.

BUSI 120  DISPUTE RESOLUTION & MEDIATION  3.5 Units
Three and one-half hours lecture.
Principles and process of mediation with role-play practice in community, business and workplace cases. Evolution and comparison of alternative dispute resolution processes. Skill development for effective communication, relationship building, interest-based negotiation and problem-solving.

BUSI 131B  HOW TO START A HOME-BASED BUSINESS .5 Unit
Advisory: Pass/No Pass.
One-half hour lecture.
Exploration of unique needs for small businesses started and operated from the home. Topics covered include information about licenses, taxes, resolution of lifestyle and image.

BUSI 133A  STARTING A SMALL BUSINESS  1 Unit
Advisory: Pass/No Pass.
One hour lecture.
Introductory class providing basics necessary for start-up of a small business including local, state, and federal regulatory requirements; pros and cons of various options for structuring business; selecting a business location; simple structuring of marketing and business plans; developing and understanding a feasibility study; and basics of managing and operating a small business.

BUSI 133E  SMALL BUSINESS MARKETING, RESEARCH & PLANNING  1 Unit
Advisory: Pass/No Pass.
One hour lecture.
Explore the basics necessary to develop a successful marketing strategy and business plan. Includes analysis of customer, competition, pricing, marketing strategies, promotional and business plans.
BUSINESS OFFICE TECHNOLOGY
Computers, Technology & Information Systems Division  (650) 949-7236
www.foothill.edu

B T 51A  PROFESSIONAL KEYBOARDING I (BEGINNING)  1 Unit
Advisory: Students who have had previous training in typewriting or
keyboarding and can keyboard at least 30 words a minute should enroll
in B T 51B.
Two hours lecture-laboratory.
Develop and master correct keyboarding skills and techniques on the microcomputer
using the touch system.
B T 51B  PROFESSIONAL KEYBOARDING II  1 Unit
Prerequisite: B T 51A or ability to typewrite/keyboard straight copy at a
minimum rate of 30 wpm for two minutes with two or fewer errors.
Two hours lecture-laboratory.
Continued development of keyboarding competencies: emphasis on increasing
speed, improving accuracy, learning word processing functions, developing formatting
skills, applying communication skills, and learning document production skills.
B T 51C  PROOFREADING I  1 Unit
Two hours lecture-laboratory.
Development of proofreading and editing skills in preparation for office occupations.
Hands-on experience with proofreading software.
B T 59  INTEGRATED BUSINESS COMMUNICATION  5 Units
Formerly: B T 59A & B T 59B
Advisory: Satisfactory completion of ENGL 110 or ESL 25, or English
Placement Test level of ENGL 1A or ESL 26. Not open to students enrolled
previously in B T 59A and B T 59B.
Four hours lecture, four hours terminal time.
Integrates the review and refinement of basic English communication in the business
setting. Includes business focused content, practice in grammar, punctuation, word
usage skills and communication techniques as well as research and techniques
for larger written documents and presentations. Skills developed will be practiced
using business computer applications in Word, PowerPoint and Excel.
B T 93U  B T EXPERIENTIAL INTERNSHIP  3 Units
B T 93V  4 Units
B T 93W  6 Units
May be taken six times for credit.
Three hours laboratory for each unit of credit.
Off-campus supervised experiential education of B T students in office administration
or technology support. Opportunity for practical application of knowledge, skills
and abilities acquired in B T and related course work. Opportunity for additional
hands-on training in all aspects of office administration and/or technology support.
Exposure to varied protocols, methodologies and practices in a professional
working environment.

CAREER LIFE PLANNING
Counseling & Student Services Division  (650) 949-7296

CRLP 55  LIFELONG LEARNING STRATEGIES  3 Units
Three hours lecture.
Interactive, applied course to teach learning strategies and skills necessary to
successfully reach educational, career and personal objectives. Topics include time
management, memory techniques, study reading, note taking, test preparation, other
learning strategies and the techniques to apply them in college and throughout life.
CRLP 70  SELF-ASSESSMENT  3 Units
Advisory: Not open to students with credit in CRLP 76 or 76A.
Three hours lecture.
Exploration of individual skills, interests, values, and personality style as they
relate to career choice. Includes testing, values clarification, skills identification,
lifestyle assessment, decision making and goal-setting techniques.

CRLP 71  EXPLORING CAREER FIELDS  1 Unit
Advisory: Pass/No Pass. May not be concurrently enrolled in CRLP 70.
May be taken three times for credit.
One hour lecture.
Explore career options compatible with student’s strengths and interests. Using
resources on the campus as well as on the Internet and in communities to investigate
specific career choices, researching job descriptions, desired employee characteristics,
training/education requirements, salary ranges and employment trends.
CRLP 72  INTERVIEWING FOR CAREER INFORMATION IN THE COMMUNITY  1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
One hour lecture.
Acquisition of career information through interviews with people active in their
career fields. Includes making initial contacts, preparing questions for the interview,
work site visitation, job-shadowing and networking.
CRLP 73  EFFECTIVE RESUME WRITING  1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
One hour lecture.
Development of successful resume writing skills including understanding of the
hidden job market, types of resumes and tips that will create resumes that result
in interviews.
CRLP 74  SUCCESSFUL INTERVIEWING TECHNIQUES  1 Unit
Advisory: Pass/No Pass.
May be taken three times for credit.
One hour lecture.
Development of successful interviewing skills includes techniques for pre-interview
preparation, dynamics of an interview, salary negotiations and follow-up.
CRLP 78  JOB SEARCH STRATEGIES  1 Unit
Advisory: CRLP 73 & 74.
May be taken three times for credit.
One hour lecture.
Designed to familiarize students with the job search process: the barriers, the
techniques, strategies and skills necessary to develop, plan, implement and
conduct a comprehensive and successful job search.
CRLP 81  PREPARATION FOR SOCIAL SCIENCE CAREERS  1 Unit
One hour lecture, one hour computer time.
Preparation course for students considering a career in the social sciences. Using
guided self-reflection of interests and aptitudes, career research and critical
analysis the student will learn what is needed to enter a social science career of
their choice. The course covers career opportunities, professional and academic
preparation, skill requirements and how to obtain them, certifications, licensure,
workplace expectations and resources available. To match careers to the correct
course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/ CRLP/occupations.htm.
CRLP 82  PREPARATION FOR CAREERS IN THE HUMANITIES  1 Unit
One hour lecture, one hour computer time.
Preparation course for students considering a career in one of the humanities.
Using guided self-reflection of interests and aptitudes, career research and critical
analysis the student will learn what is needed to enter a humanities career of
their choice. The course covers career opportunities, professional and academic
preparation, skill requirements and how to obtain them, certifications, licensure,
workplace expectations and resources available. To match careers to the correct
course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/ CRLP/occupations.htm.
CRLP 83  PREPARATION FOR CAREERS IN THE ARTS  1 Unit
One hour lecture, one hour computer time.
Preparation course for students considering a career in the arts, including but not limited to art, music, drama, and film. Using guided self-reflection of interests and aptitudes, career research and critical the student will learn what is needed to enter a career in the arts of their choice. The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure if applicable, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellillo/CRLP/occupations.htm.

CRLP 84  PREPARATION FOR CAREERS IN THE SCIENCES  1 Unit
One hour lecture, one hour computer time.
Preparation course for students considering a career in one of the physical or biological sciences, including but not limited to medical, health and research areas. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a science career of their choice. The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellillo/CRLP/occupations.htm.

CRLP 85  PREPARATION FOR ENGINEERING & TECHNOLOGY CAREERS  1 Unit
One hour lecture, one hour computer time.
Preparation course for students considering a career in engineering & technology. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a career in the engineering or technology field of their choice. The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellillo/CRLP/occupations.htm.

CRLP 86  PREPARATION FOR BUSINESS CAREERS  1 Unit
One hour lecture, one hour computer time.
Preparation course for students considering a career in business. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a business career of their choice. The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellillo/CRLP/occupations.htm.

CRLP 87  PREPARATION FOR CAREERS IN SECURITY & SAFETY  1 Unit
One hour lecture, one hour computer time.
Preparation course for students considering a career in security, to include but not limited to law enforcement, military, EMT/paramedic, forensics, computer security and security sales. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a security career of their choice. The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellillo/CRLP/occupations.htm.

CRLP 90  HIGH-TECH CAREER EXPLORATION ON THE INTERNET  1 Unit
Advisory: Familiarity with general computing and the Internet. Not open to students with credit in CAST 50. May be taken three times for credit.
Two hours lecture-laboratory, one hour terminal time.
Exploration of careers using the resources of the Internet. The student will explore interests, aptitudes, career clarification and use the internet as a resource in developing a career plan.

CRLP 220A  PREPARATION FOR RADIOLOGIC TECHNOLOGY  1 Unit
Advisory: Pass/No Pass.
One hour lecture.
Designed to prepare students to apply to the Radiologic Technology Program.

CERTIFIED ELECTRICIAN

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C E 101  ELECTRICIAN TRAINING CERTIFICATION REVIEW  12 Units
Prerequisites: Completion of C E 129 or equivalent, and eligibility for State of California Electrician Certification as an Electrician in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
10 hours lecture, four hours lecture-laboratory.
An eight module content review course designed to prepare for all elements of the State Electrician Certification Exam. Study of the National Electrical Code (NEC), its purpose, and application of information to the job. Theory, function, and design of DC and AC generators and basic fundamentals of using blueprints. Instruction on usage of test equipment and pipe bending tools. Orientation to job responsibility and safety procedures. Provides the what, where, and why effective grounding is needed, and how grounding can be effective in the overall electrical installation. Advice and practice on how to prepare for and take examinations.

C E 101A  ELECTRICIAN TRAINING CERTIFICATION REVIEW: NEC  3 Units
Prerequisites: Completion of C E 129 or equivalent, and eligibility for State of California Electrician Certification as an Electrician in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
Three hours lecture.
A content review course designed to prepare for NEC component of the State Electrician Certification Exam. Study of the National Electrical Code (NEC), its purpose, and application of information to the job. Advice and practice on how to prepare for and take examinations.

C E 101B  ELECTRICIAN TRAINING CERTIFICATION REVIEW: TEST INSTRUMENTS  1.5 Units
Prerequisite: Eligibility and registration as an Electrician Trainee for purpose of attaining a State of California Electrician Certification in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
One hour lecture, one hour laboratory.
A content review course designed to prepare for the test instrument portion of the State Electrician Certification Exam. Instruction on usage of test equipment. Advice and practice on how to prepare for and take examinations.

C E 101C  ELECTRICIAN TRAINING CERTIFICATION REVIEW: AC/DC GENERATORS  1.5 Units
Prerequisites: Completion of C E 129 or equivalent, and eligibility for State of California Electrician Certification as an Electrician in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
One hour lecture, one hour laboratory.
A content review course designed to prepare for DC/AC generator elements of the State Electrician Certification Exam. Theory, function, and design of DC and AC generators and basic fundamentals of using blueprints. Advice and practice on how to prepare for and take examinations.
C E 101D  ELECTRICIAN TRAINING CERTIFICATION  1.5 Units
REVIEW: PIPE BENDING
Prerequisites: Completion of C E 129 or equivalent, and eligibility for State of California Electrician Certification as an Electrician in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
One hour lecture, one hour laboratory.
A content review course designed to prepare for Pipe Bending elements of the State Electrician Certification Exam. Instruction on usage of pipe bending tools. Advice and practice on how to prepare for and take examinations.

C E 101E  ELECTRICIAN TRAINING CERTIFICATION  1.5 Units
REVIEW: GROUNDING & BONDING
Prerequisites: Completion of C E 129 or equivalent, and eligibility for State of California Electrician Certification as an Electrician in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
One hour lecture, one hour laboratory.
A content review course designed to prepare for grounding and bonding elements of the State Electrician Certification Exam. Provides the what, where, and why effective grounding is needed, and how grounding can be effective in the overall electrical installation. Advice and practice on how to prepare for and take examinations.

C E 101F  ELECTRICIAN TRAINING CERTIFICATION  2.5 Units
REVIEW: BLUEPRINT READING
Prerequisites: Eligibility and registration as an Electrician Trainee for purpose of attaining a State of California Electrician Certification in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
Two and one-half hour lecture.
A content review course designed to prepare for all elements of the State Electrician Certification Exam. Theory, function, and basic fundamentals of using blueprints. Advice and practice on how to prepare for and take examinations.

C E 101G  ELECTRICIAN TRAINING CERTIFICATION  1 Unit
REVIEW: PROFESSIONAL RELATIONS
Prerequisites: Completion of C E 129 or equivalent, and eligibility for State of California Electrician Certification as an Electrician in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
One hour lecture.
A content review course designed to prepare for Professional Job Relations elements of the State Electrician Certification Exam. Advice and practice on how to prepare for and take examinations.

C E 101H  ELECTRICIAN TRAINING CERTIFICATION  1 Unit
REVIEW: SPECIALTY SYSTEMS
Prerequisites: Completion of C E 129 or equivalent, and eligibility for State of California Electrician Certification as an Electrician in one of the following categories: General, Residential, Fire/Life Safety Technician, Voice Data Video Technician, or Nonresidential Lighting Technician. May be repeated six times for credit.
One hour lecture.
A content review course designed to prepare for the specialty systems portion of the State Electrician Certification Exam. Study of the National Electrical Code (NEC), its purpose, and application of information to the job. Theory, function, and design of DC and AC generators and basic fundamentals of using blueprints. Instruction on usage of test equipment and pipe bending tools. Orientation to job responsibilities and safety procedures. Provides the what, where, and why effective grounding is needed, and how grounding can be effective in the overall electrical installation. Advice and practice on how to prepare for and take examinations.

CHEMISTRY
Physical Sciences, Mathematics & Engineering
(650) 949-7259
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CHEM 1A  GENERAL CHEMISTRY  5 Units
Prerequisites: Satisfactory score (22) on the chemistry placement test or CHEM 25. Satisfactory score on the mathematics placement test or MATH 104 or 105.
Advisory: ENGL 100 or ESL 25.
Three hours lecture, two hours lecture-laboratory, four hours laboratory.
Fundamental chemical principles with emphasis on physical and chemical properties, stoichiometry, chemical reaction types, kinetic molecular theory, thermochromy, modern atomic theory and atomic structure, chemical bonding and bonding theory, and molecular shapes. Laboratory parallels lecture topics and also includes chemical nomenclature, basic chemical equations, stoichiometry, unknown analysis, and fundamentals of oxidation and reduction. [CAN CHEM 1, CAN CHEM 2 = CHEM 1A+1B, CAN CHEM SEQ A = CHEM 1A+1B+1C]

CHEM 1B  GENERAL CHEMISTRY  5 Units
Prerequisite: CHEM 1A.
Three hours lecture, two hours lecture-laboratory, four hours laboratory.
Kinetic molecular theory and gas laws, intermolecular forces, chemical kinetics, equilibria, behavior of acids and bases, acid/base equilibrium, and classical thermodynamics. Laboratory parallels lecture topics and includes computer graphing techniques, chemical kinetics, equilibrium measurements, heat transfer experiments, thermodynamics of an equilibrium system, vapor pressure of liquids. [CAN CHEM 2 = CHEM 1A+1B, CAN CHEM 3, CAN CHEM SEQ A = CHEM 1A+1B+1C, CAN CHEM 4 = CHEM 1B+1C]

CHEM 1C  GENERAL CHEMISTRY & QUALITATIVE ANALYSIS  5 Units
Prerequisite: CHEM 1B.
Three hours lecture, two hours lecture-laboratory, four hours laboratory.
Aqueous ionic equilibria of buffers and solubility product constants; electrochemistry including the thermodynamics of voltaic cells; introduction to coordination chemistry and bonding theory; nuclear chemistry with emphasis on applications; and an introduction to organic chemistry. Laboratory parallels lecture topics with a brief introduction to qualitative inorganic analysis. [CAN CHEM 4 = CHEM 1B+1C, CAN CHEM 5, CAN CHEM SEQ A = CHEM 1A+1B+1C]

CHEM 10  INTRODUCTORY CHEMISTRY  5 Units
Corequisite: Satisfactory score on the mathematics placement test or concurrent enrollment in MATH 105.
Four hours lecture, two hours laboratory, one hour terminal time.
This course provides a survey of general chemistry principles for non-science majors. This course satisfies the Area III - Natural Sciences (with laboratory) general education requirement. No background in chemistry or physics is required. The course focuses on chemical topics that are informative and relevant to everyday life. Emphasis on the scientific method, the structure of matter, gases, liquids, solids, acids and bases, and organic molecules. Special topics in biochemistry, energy, drugs, and natural resources may be covered. Corresponding laboratory activities are performed concurrently with the lecture topics.

CHEM 12A  ORGANIC CHEMISTRY  6 Units
Prerequisite: CHEM 1C.
Four hours lecture, two hours lecture-laboratory, four hours laboratory.
A sophomore level course describing the chemistry of organic (carbon containing) compounds. Emphasis on structure-reactivity relationships mechanisms of functional group transformations, and methods of synthesis, purification, isolation and characterization of organic target molecules. For biological science, chemistry, chemical engineering, pre-professional students in dentistry, medicine, pharmacy, veterinary medicine and other interested students who have mastered the prerequisites.

CHEM 12B  ORGANIC CHEMISTRY  6 Units
Prerequisite: CHEM 12A.
Four hours lecture, two hours lecture-laboratory, four hours laboratory.
A continuation of a sophomore-level course describing the reactivity of organic (carbon containing) compounds. Emphasis on synthesis and organic reactions, mechanisms of functional group transformations, and methods of synthesis, purification, isolation and characterization of organic target molecules. For biological science, chemistry, chemical engineering, pre-professional students in dentistry, medicine, pharmacy, veterinary medicine and other interested students who have mastered the prerequisites.
CHEM 12C ORGANIC CHEMISTRY 6 Units
Prerequisite: CHEM 12B.
Four hours lecture, two hours lecture-laboratory, four hours laboratory.
A continuation of a cumulative sophomore-level course describing the reactivity of organic (carbon containing) compounds, including bio-molecules. Continued emphasis on structure-reactivity relationships, mechanisms of functional group transformations, and methods of synthesis, purification and isolation and characterization of organic target molecules. For biological science, chemistry, chemical engineering, pre-professional students in dentistry, medicine, pharmacy, veterinary medicine and other interested students who have mastered the prerequisites.

CHEM 25 FUNDAMENTALS OF CHEMISTRY 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 105.
Advisory: Concurrent enrollment in ESL 25 or ENGL 100 level is recommended.
Four hours lecture, one hour lecture-laboratory, two hours laboratory.
Intended for students who wish to meet general education requirements in physical science or need background preparation for CHEM 1A. The course includes basic chemical laboratory techniques and methods, a survey of important chemical principles with emphasis on problem solving, and a description of the elements and their compounds.

CHEM 30A SURVEY OF INORGANIC & ORGANIC CHEMISTRY 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.
Four hours lecture, one hour lecture-laboratory, two hours laboratory.
This is an introductory course covering basic principles of chemistry more descriptive than quantitative in emphasis. Topics include atomic structure, trends in the periodic table, the three states of matter (gas, liquid and solid), energy, chemical bonding in ionic and molecular compounds, nomenclature, measurement and the metric system, chemical reactions and equations, solutions, acids, bases, salts and electrolyte systems. This chemistry course is primarily for students entering the Allied Health field including: nursing, veterinary technology, dental assistant, dental hygiene, biotechnology, primary care associate, radiation therapy technology, radiological technology, respiratory therapy, and pharmaceutical technology. [CAN CHEM 6, CAN CHEM SEQ B = CHEM 30A+30B]

CHEM 30B SURVEY OF ORGANIC & BIOCHEMISTRY 5 Units
Prerequisite: CHEM 30A.
Four hours lecture, one hour lecture-laboratory, two hours laboratory.
This is an introductory course covering basic principles of organic chemistry and biological chemistry. Topics include organic chemistry nomenclature, functional groups, and an introduction to structure and properties of carbohydrates, lipids, nucleic acids, proteins and enzymes. An overview of metabolism will also be given. This chemistry course is primarily for students entering the allied health field including: nursing, dental hygiene, biotechnology, primary care associate, radiation therapy technology, radiological technology, respiratory therapy, and pharmaceutical technology. [CAN CHEM 6, CAN CHEM SEQ B = CHEM 30A+30B]

CHEM 34 HONORS INSTITUTE SEMINAR IN CHEMISTRY 1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in chemistry. Specific topics to be determined by the instructor.

CHEM 36 SPECIAL PROJECTS IN CHEMISTRY 1 Unit
CHEM 36X 2 Units
CHEM 36Y 3 Units
Prerequisite: Four quarters of college-level chemistry. Any combination of CHEM 36, 36X & 36Y may be taken for a maximum of six units.
Three hours laboratory.
Advanced laboratory procedures and practices; the use of instrumentation and analytical chemistry; inorganic and organic analyses and syntheses; physical measurements. Projects are assigned on consultation with instructor, outside reading required.

CHEM 41 CLASS PRACTICES: MIDDLE-SCHOOL SCIENCE 2 Units
Prerequisites: Satisfactory score on the mathematics placement test or MATH 104 or 105. Must have passed a college level chemistry or physics course. Recommendation from a math, physics, or chemistry faculty and approval by the instructor.
Advisory: ENGL 100 or ESL 25. Pass/No Pass.
One hour lecture, three hours laboratory.
Introduce prospective science, technology, engineering, and mathematics (STEM) teachers to the field of Middle School education and the teaching and learning of science in Middle School classrooms. Pairs of students are placed in local Middle School classrooms to observe, participate, and assist a Mentor Teacher in instruction. Students also participate in the weekly seminar and discussion of learning in Middle School culture, cognitive development of students, and best means to teach appropriate science concepts at this level. Foothill students are expected to work a minimum of 30 hours (3 hrs/week x 10 weeks; will be adjusted for Middle School calendar as required) in the Middle School classroom during the quarter. Introduced to the concepts that as classroom assistants or teachers, they are role models to the elementary students and there is a large responsibility inherent in assuming this role. Support creating a respectful and inclusive classroom atmosphere where children learn most effectively.

CHEM 42 CLASS PRACTICES: ELEMENTARY-SCHOOL SCIENCE 2 Units
Prerequisites: Satisfactory score on the mathematics placement test or MATH 104 or 105. Must have passed a college level chemistry or physics course. Recommendation from a math, physics, or chemistry faculty and approval by the instructor. Current TB test, finger printing, and background investigation.
Advisory: ENGL 100 or ESL 25 recommended. Pass/No Pass.
One hour lecture, three hours laboratory.
Introduce prospective science, technology, engineering, and mathematics (STEM) teachers to the field of Elementary School education and the teaching and learning of science in Elementary School classrooms. Pairs of students are placed in local Elementary School classrooms to observe, participate, and assist a Mentor Teacher in instruction. Students also participate in the weekly seminar and are introduced to inquiry-based learning practices, National and California standards, reading and learning differences in children and the cognitive ability of elementary-age children as it relates to the introduction of concepts, curricular planning, classroom management, and learning assessment. Foothill students are expected to work a minimum of 30 hours (3 hrs/week x 10 weeks; will be adjusted for Elementary School calendar as required) in the Elementary School classroom during the quarter. Introduced to the concepts that as classroom assistants or teachers, they are role models to the elementary students and there is a large responsibility inherent in assuming this role. Contribute to creating a respectful and inclusive classroom atmosphere where children learn most effectively.

CHEM 100 CHEMISTRY STUDENT ASSISTANCE .5 Unit
CHEM 100X 1 Unit
CHEM 100Y 2 Units
Corequisites: Concurrent enrollment in any Chemistry course.
May be taken six times for credit.
One and one-half hours laboratory.
Individual study and/or guidance provided for students who desire or require additional assistance in any of the Chemistry courses.

CHEM 190 DIRECTED STUDY .5 Unit
CHEM 190X 1 Unit
CHEM 190Y 1.5 Units
CHEM 190Z 2 Units
Advisory: Pass/No Pass.
Any combination of CHEM 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.
One half-hour lecture, one and one-half hours laboratory.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

CHEM 380Z CHEMISTRY STUDENT ASSISTANCE 0 Units
Corequisite: Concurrent enrollment in any Chemistry course.
May be taken six times for credit.
Twelve hours laboratory.
Individual study and/or guidance provided for students who desire or require additional assistance in any of the Chemistry courses.
CHLD 11  AFFIRMING DIVERSITY IN EDUCATION  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Analysis of gender, race, culture, abilities/disabilities and social class from the child development perspective with emphasis on theory and research. Provides a conceptual framework for children's cognitive, social and emotional responses to diversity. Serves as a basis to develop a rationale for a culturally responsive/anti-bias education.

CHLD 50  SCHOOL-AGE CHILD (5–12): BEHAVIOR & DEVELOPMENT  3 Units
Three hours lecture.
Introduction to human growth and development from ages five to twelve, covering physical, cognitive, social and emotional development of the child. Discussions of current issues facing school-age children in contemporary society. Designed for those who work or desire to work with school-age children in after school programs, in elementary schools (teachers and aides) and the home (parents or caregivers).

CHLD 50A  INFANT/TODDLER DEVELOPMENT  3 Units
Three hours lecture.
Human growth and development from birth to age three years; discussion of concepts, characteristics, stages, and timing of physical, social, emotional, intellectual, and language development. Investigation of developmental norms, recognition of individual differences, child theory in action, and guides for working and living with children.

CHLD 50B  PRESCHOOL YEARS: 3 to 6  3 Units
Three hours lecture.
Human growth and development from three years to six years. A discussion of the developmental stages including: physical, social, emotional, and intellectual. Peer relationships, pro-social behavior and knowing and living with the preschool child.

CHLD 53NP  ATYPICAL DEVELOPMENT IN THE EARLY YEARS  3 Units
Three hour lecture.
Introduction to a range of diagnosed disabilities and other special needs conditions that cause children, birth through age 8, to show atypical development. Discussion of laws and service provisions, social and educational implications, culture and family dynamics in the context of the larger community.

CHLD 55  CHILD GROWTH & DEVELOPMENT  5 Units
Four hours lecture, three hours laboratory.
Development of the child from prenatal life through adolescence. In-depth study of the physical, cognitive, language and social-emotional development of children from infancy through adolescence. Observation of children required. [CAN FCS 14]

CHLD 56  OBSERVATION TECHNIQUES  4 Units
Advisory: CHLD 56N, 55 or PSYC 14.
Three hours lecture, three hours laboratory.
Provides training in observational techniques in natural settings using a range of tools. Students will learn to make formal observations that will guide their development of curriculum, create a child's portfolio and prepare for teacher-parent conferences.

CHLD 56N  INTRODUCTION TO CHILD DEVELOPMENT  4 Units
Four hours lecture.
Introduction to the field of child development. Curriculum planning and supervisory activities for children in early childhood programs. Focus on developmental issues in the teaching-learning environment, including guidelines for interaction and teaching techniques.

CHLD 59  WORKING WITH SCHOOL-AGE CHILDREN: PRINCIPLES & PRACTICUM  3 Units
Three hours lecture.
Review of developmental characteristics of children age 5 to 12. Role of adult in high quality child care and behavior management. Planning and implementing developmentally appropriate curriculum. Creating environment-program standards and criteria for evaluation. Specifically designed for those who work or desire to work with school-age children in a variety of after-school, recreation and summer day camps.

CHLD 63N  ARTISTIC & CREATIVE DEVELOPMENT  3 Units
Two and one-half hours lecture, one hour laboratory.
Artistic awareness and creativity in young children. Using a variety of media to promote children's sensitivity to, and use of, various creative arts, visual arts and performing arts. Role of the parent and teacher in encouraging children's explorations.

CHLD 64N  BUILDING RELATIONSHIPS BETWEEN PARENTS & CHILDREN  1 Unit
Advisory: Pass/No Pass.
May be taken six times for credit.
One hour lecture.
Focus on helping parents build a loving and responsible relationship with their children, and develop skills to handle conflicts creatively. Topics include helping children deal with their feelings, expressing anger without being hurtful, engaging children's cooperation without nagging, setting firm limits, and negotiating win-win solutions.

CHLD 68  TOPICS/PROJECTS IN CHILD DEVELOPMENT  1 Unit
Two hours lecture-laboratory.
Introduction to a variety of creative art activities for the preschool child. Tactile arts including paint, clay, chalk, playdough, collage and crayons.

CHLD 71  PLANNING CREATIVE ART ACTIVITIES FOR CHILDREN  1 Unit
Two hours lecture-laboratory.
Introduction to a variety of creative art activities for the preschool child. Tactile arts including paint, clay, chalk, playdough, collage and crayons.

CHLD 72  LANGUAGE DEVELOPMENT  3 Units
Three hours lecture.
Introduction to language development focusing on cognition, language development and language within the social context. Theoretical information and practical applications with children including music, movement, storytelling, books, chants, songs and fingerplays.

CHLD 73  MUSIC & MOVEMENT IN THE EARLY YEARS  3 Units
Two hours lecture, three hours laboratory.
Music and movement activities and experiences that facilitate non-musicians teachers to express ideas and implement expanded curriculum ideas for infants/toddlers, preschoolers and school aged children. Elements of presentation and basic concepts of teaching music and movement to promote the growth and development of the young children.

CHLD 74  SCIENCE & NATURE  1 Unit
One hour lecture.
Science for children; suggestions for activities involving plants, animals, and the physical properties of the environment; emphasis on making science part of the everyday experience.

CHLD 79  CARING FOR INFANTS & TODDLERS IN GROUPS  3 Units
Three hours lecture.
Overview of infant and toddler development. The role adults play in responsive infant and toddler caregiving and the essential elements of a quality infant/toddler environment. Individualized routines as appropriate curriculum. Forming partnerships with parents.

CHLD 82  PLANNING CREATIVE DRAMATICS  1 Unit
One hour lecture.
An introduction to creative dramatics for the child; dramatic play, puppetry, role playing, acting out stories; how to implement creative dramatics. The emergence of creativity, imagining, and empathizing with others. Techniques for promoting children's sensitivity to, and use of, various dramatic art forms. The role of the parent and teacher in facilitating children's explorations.
CHLD 85 LITERACY & LITERATURE IN PRESCHOOL EDUCATION 3 Units
Three hours lecture.
Introduction to literature for children from birth through age 5. Emphasis on selection, evaluation and classroom use of literature to support literacy in children.

CHLD 86A MENTORING & PROFESSIONAL DEVELOPMENT OF EARLY CHILDHOOD PROFESSIONALS 4 Units
Advisories: CHLD 55, 88 and a minimum of three quarter units in Child Development courses.
Four hours lecture
Focus on preparing teachers for the role of mentoring student teachers, assistant teachers, parents, and volunteers in early childhood settings. Emphasis is on the role of teachers supervising other adults while simultaneously addressing the classroom needs of the children and parents in the program. Development will focus on the professional self, portfolio development, documentation of the teacher’s work with children.

CHLD 86B PRACTICUM STUDENT TEACHING IN AN EARLY CHILDHOOD PROGRAM 5 Units
Advisories: CHLD 55, 88 and a minimum of three quarter units in Child Development courses.
Two hours lecture, 10 hours laboratory.
Focus on students preparing to work in an early childhood program. Integrating and applying knowledge and understanding of the process of child growth and development to group settings with young children. Incorporates the role of the teacher as it relates to observing, interacting, with children and families, planning and implementing developmentally appropriate curriculum, and participating in staff meetings.

CHLD 88 CHILD, FAMILY & COMMUNITY 4 Units
Four hours lecture.
Child’s relationship to the family and community. Interaction of family members and the community as they cope with problems that affect the child. How family life practices and attitudes differ among cultures. Major child development theories and how they relate to cross-cultural perspectives of the child in society.

CHLD 88B POSITIVE BEHAVIOR MANAGEMENT 2 Units
Two hour lecture.
Introduction to a range of positive guidance techniques that can be used with infants, toddlers, pre-school, and school-aged children. Emphasis on selection of appropriate strategies to meet the needs of each individual child.

CHLD 89 CURRICULUM FOR THE PRESCHOOL CLASSROOM 3 Units
Advisory: CHLD 50B.
Three hours lecture.
Developmentally appropriate curriculum practices. Essential elements of the quality preschool environment (physical, temporal, interpersonal, cultural). Areas, activities, and materials which combine to enhance the development of skills and self esteem in preschoolers.

CHLD 90B ADMINISTRATION & SUPERVISION: DESIGNING & STARTING CHILD CARE FACILITIES 4 Units
Advisory: Completion of nine units of Child Development courses.
Four hours lecture.
Components of a quality child care center including types of programs, facility design and set up, licensing regulations, budgeting processes, personnel and policy procedures, food, health and safety issues, and working with advisory boards.

CHLD 90C ADMINISTRATION & SUPERVISION: PROGRAM OPERATION 4 Units
Advisory: Completion of nine units of Child Development courses.
Four hours lecture.
Administrative responsibilities including budgeting processes, program philosophy, program assessment, marketing and enrollment management, parent and community involvement, ADA facility requirements, and equipment selection.

CHLD 91 ADMINISTRATION & SUPERVISION: ADULT SUPERVISION 4 Units
Advisory: Completion of nine units of Child Development courses.
Four hours lecture.
Methods and principles of supervising adults in early childhood classrooms. Emphasis on the role of experienced classroom teachers who function as support and mentors to new teachers. Fulfills requirement of Child Development Permit Matrix and Mentor Teacher course.

CHLD 95 HEALTH, SAFETY & NUTRITION IN CHILDREN’S PROGRAMS 3 Units
Three hours lecture.
For child care providers engaged in-home or classroom care of young children. Studies will include how to improve health and safety procedures, signs and symptoms of infectious diseases, knowledge of sanitary food handling, child nutrition and physical fitness, signs and symptoms of child abuse, and emergency preparedness and evacuation. Student earns a first aid with CPR training certificate.
Course meets Title 22, Section 10215.1 California State Licensing requirement.

CHLD 190 DIRECTED STUDY 5 Units
Any combination of CHLD 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.
One-half hour lecture, one and one-half laboratory.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

CHINESE-MANDARIN

Language Arts Division
(650) 949-7250
www.foothill.edu/la/

CHIN 1 ELEMENTARY CHINESE I 5 Units
Five hours lecture, two hours laboratory.
Intensive oral practice of basic, everyday language functions. Written practice to further understanding of the underlying grammatical and syntactical structures. Introduction to the four tone system of Chinese pronunciation and characters. Language laboratory practice. [CAN CHIN SEQ A = CHIN 1+2+3]

CHIN 2 ELEMENTARY CHINESE II 5 Units
Prerequisite: CHIN 1 or one year of high school Chinese.
Five hours lecture, two hours laboratory.
Intensive oral and written practices broadening the functions presented in CHIN 1. Further development of the use of the four tone system of Chinese pronunciation, as well as basic grammatical construct and sentence structures. Language laboratory practice. [CAN CHIN SEQ A = CHIN 1+2+3]

CHIN 3 ELEMENTARY CHINESE III 5 Units
Prerequisite: CHIN 2 or two years of high school Chinese.
Five hours lecture, two hours laboratory.
Continuation of CHIN 2. Further development of listening, speaking, reading and writing skills. Intensive oral practice of the four tone system pronunciation in everyday language situations. Oral and written practice of Chinese grammatical constructions and sentence structures. Language laboratory practice. [CAN CHIN SEQ A = CHIN 1+2+3]

CHIN 4 INTERMEDIATE CHINESE 5 Units
Prerequisite: CHIN 3 or three years of high school Chinese.
Five hours lecture, one hour laboratory.
CHIN 5 INTERMEDIATE CHINESE 5 Units
Prerequisite: CHIN 4 or four years of high school Chinese.
Five hours lecture, one hour laboratory.

CHIN 6 INTERMEDIATE CHINESE 5 Units
Prerequisite: CHIN 5.
Five hours lecture, one hour laboratory.

CHIN 13A INTERMEDIATE CONVERSATION I 3 Units
Prerequisite: CHIN 3.
Three hours lecture, one hour laboratory.
Speaking and listening experience in culturally appropriate ways. Special emphasis on correct perception and speaking, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, formal and informal conversations. Understanding ambiguities, vagaries, and value inherent in the target language.

CHIN 13B INTERMEDIATE CONVERSATION II 3 Units
Prerequisite: CHIN 13A.
Three hours lecture, one hour laboratory.
Continuation of CHIN 13A. Speaking and listening experience in an environment of increasingly challenging language situation in culturally appropriate ways. Special emphasis on rapidity of correct perception and speaking, acquaintance with a variety of native dialects, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, and debates. Stating and supporting opinions on various topics. Understanding ambiguities, vagaries, and value inherent in the target language.

CHIN 14A ADVANCED CONVERSATION I 3 Units
Prerequisite: CHIN 13B.
Three hours lecture, one hour laboratory.
Development of fluency in the oral/aural language, and cultural skills required in socio-linguistic functions, i.e., honorifics, in-group/out-group, male/female, and formal/formal expressions. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, debates, and drama. Stating and supporting opinions on various topics, including abstract concepts. Understanding and appreciating ambiguities, vagaries, and value inherent in the target language.

CHIN 14B ADVANCED CONVERSATION II 3 Units
Prerequisite: CHIN 14A.
Three hours lecture, one hour laboratory.
Continuation of CHIN 14A. Development of advanced level of oral/aural fluency in the language, and cultural skills required in socio-linguistic functions. Stating and supporting opinions on complex, abstract topics. Analyzing and hypothesizing. Understanding cultural differences, persuading, negotiating, and giving speech in fensive drill of the four-tone system. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, debates on various issues, and drama.

CHIN 25A ADVANCED COMPOSITION & READING I 4 Units
Prerequisite: CHIN 6.
Four hours lecture.
Introduction to authentic Chinese written materials intended for native Chinese readers, such as magazine articles, editorials, statistics, and literature. Reading and analysis of texts as exponents of the culture and History. Compositions and advanced grammar. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of reading and writing skills by exploring various forms of literary and other forms of creative thoughts. Understanding ambiguities, vagaries, and value inherent in the target language.

CHIN 25B ADVANCED COMPOSITION & READING II 4 Units
Prerequisite: CHIN 25A.
Four hours lecture.
Continuation of CHIN 25A. Reading and analysis of authentic Chinese written materials intended for native Chinese readers, as exponents of the culture and History. Development of further skills in reading authentic materials, including magazines, newspaper articles, editorials, literature, and abstract theories. Practice in writing expository essays. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of reading and writing skills by exploring various forms of literary and other forms of creative thoughts. Understanding and appreciating the ambiguities, vagaries, and value inherent in the target language.

CHIN 103 CHINESE BUSINESS CULTURE & ETIQUETTE 1 Unit
Prerequisite: CHIN 3.
One hour lecture.
Introduction to basic Chinese business etiquette and culture. Basic business greetings and interactions. Culturally appropriate behavior and body language. The role of gift giving and socializing in a business setting. The decision-making process in Chinese corporate culture.

CHIN 190 DIRECTED STUDY LECTURE  .5 Unit
CHIN 190X 1 Unit
CHIN 190Y 1.5 Units
CHIN 190Z 2 Units
Advisory: Pass/No Pass.
Any combination of CHIN 190, 190X, 190Y & 190Z may be taken for a maximum of 4 units.
One hour lecture.
For students who desire or require additional help in attaining comprehension and competency in learning skills.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Advisory</th>
<th>Formerly</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1A</td>
<td>PUBLIC SPEAKING</td>
<td>4.5</td>
<td>Introduction to the analysis of the History of rhetoric and public address; application of principles of public address to the preparation and delivery of public speeches. [CAN SPCH 4]</td>
<td></td>
<td>SPCH 1A</td>
</tr>
<tr>
<td>COMM 1B</td>
<td>ARGUMENTATION &amp; PERSUASION</td>
<td>4.5</td>
<td>The study and practice of argumentation and persuasion. Analysis of rhetorical theory and application of methods of effective persuasion. Knowledge of the structure and format of various types of disputation and participation in in-class speech activities. [CAN SPCH 6]</td>
<td>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 1B</td>
</tr>
<tr>
<td>COMM 2</td>
<td>INTERPERSONAL COMMUNICATION</td>
<td>4.5</td>
<td>Experience in interpersonal communication, including discussion, the perception process, critical thinking and reasoning, verbal and nonverbal modes of communication, intercultural communication, and the effect of communication on individuals and society. Faculty and peer feedback on critically evaluated exercises.</td>
<td>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 2</td>
</tr>
<tr>
<td>COMM 3</td>
<td>FUNDAMENTALS OF ORAL COMMUNICATION</td>
<td>4.5</td>
<td>Understanding of the principles of group interaction and decision making. Participation in discussion groups designed to share information, solve problems and reach consensus. [CAN SPCH 10]</td>
<td>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 3</td>
</tr>
<tr>
<td>COMM 4</td>
<td>GROUP DISCUSSION</td>
<td>4.5</td>
<td>A comparative and integrative study of the interactive relationship between communication, gender, and culture in American society. Emphasis on the multiple ways communication in interpersonal relationships, educational institutions, organizations, media, and society in general creates and perpetuates gender roles. Analysis of gendered histories, traditions, and practices which normalize certain expectations, values, meanings, and patterns of behavior across cultural/racial lines (Native Americans, European Americans, African Americans, Asian Americans, Gays, Lesbians, Bi-sexual, and Transgendered peoples).</td>
<td>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 4</td>
</tr>
<tr>
<td>COMM 6</td>
<td>THE RHETORIC OF POLITICAL SPEECH</td>
<td>4.5</td>
<td>A comparative and integrative study of the interactive relationship between communication, gender, and culture in American society. Emphasis on the multiple ways communication in interpersonal relationships, educational institutions, organizations, media, and society in general creates and perpetuates gender roles. Analysis of gendered histories, traditions, and practices which normalize certain expectations, values, meanings, and patterns of behavior across cultural/racial lines (Native Americans, European Americans, African Americans, Asian Americans, Gays, Lesbians, Bi-sexual, and Transgendered peoples).</td>
<td>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 6</td>
</tr>
<tr>
<td>COMM 10</td>
<td>GENDER, COMMUNICATION &amp; CULTURE</td>
<td>4.5</td>
<td>A comparative and integrative study of the interactive relationship between communication, gender, and culture in American society. Emphasis on the multiple ways communication in interpersonal relationships, educational institutions, organizations, media, and society in general creates and perpetuates gender roles. Analysis of gendered histories, traditions, and practices which normalize certain expectations, values, meanings, and patterns of behavior across cultural/racial lines (Native Americans, European Americans, African Americans, Asian Americans, Gays, Lesbians, Bi-sexual, and Transgendered peoples).</td>
<td>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 10</td>
</tr>
<tr>
<td>COMM 12</td>
<td>INTERCULTURAL COMMUNICATION</td>
<td>4.5</td>
<td>A comparative and integrative study of intercultural communication in American Society. Examination of cultural histories, cultural concepts, language, ethnic perspectives, perceptions, symbols and roles as they facilitate or hinder effective verbal and nonverbal interaction across cultural lines. Examination of cultural identities which influence thinking and behavior, such as race, class, gender, ethnicity, sexual orientation, nationality, age, appearance, and physical ability.</td>
<td>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 12</td>
</tr>
<tr>
<td>COMM 24</td>
<td>READERS' THEATRE</td>
<td>4.5</td>
<td>A seminar in directed readings, discussions, and projects in speech. Specific topics to be determined by the instructor.</td>
<td>Advisory: Not open to students with credit in DRAM 24. May be taken two times for credit. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 24</td>
</tr>
<tr>
<td>COMM 34</td>
<td>HONORS INSTITUTE SEMINAR IN SPEECH</td>
<td>1</td>
<td>A seminar of advanced research in the critical elements of speech communication. Discussions and individual writing projects under instructor supervision. Specific topics will vary from quarter to quarter. This course can be substituted for departmental requirements. Enrollment in this course is available in the Fine Arts Division Office.</td>
<td>Prerequisite: Membership in the Honors Institute. One hour lecture.</td>
<td>SPCH 34</td>
</tr>
<tr>
<td>COMM 35</td>
<td>DEPARTMENT HONORS PROJECTS IN SPEECH</td>
<td></td>
<td>A seminar of advanced research in the critical elements of speech communication. Discussions and individual writing projects under instructor supervision. Specific topics will vary from quarter to quarter. This course can be substituted for departmental requirements. Enrollment in this course is available in the Fine Arts Division Office.</td>
<td>Prerequisite: Membership in the Honors Institute. One hour lecture.</td>
<td>SPCH 35</td>
</tr>
<tr>
<td>COMM 36</td>
<td>SPECIAL PROJECTS IN SPEECH</td>
<td></td>
<td>A seminar of advanced research in the critical elements of speech communication. Discussions and individual writing projects under instructor supervision. Specific topics will vary from quarter to quarter. This course can be substituted for departmental requirements. Enrollment in this course is available in the Fine Arts Division Office.</td>
<td>Prerequisite: Membership in the Honors Institute. One hour lecture.</td>
<td>SPCH 36</td>
</tr>
<tr>
<td>COMM 46</td>
<td>VOICE &amp; DICTION</td>
<td>4.5</td>
<td>An introductory study of the anatomy and physiology of the vocal mechanism. Development of voice and articulation with an emphasis on standard American speech for the stage.</td>
<td>Advisory: Not open to students with credit in DRAM 46. Four hours lecture, one and one-half hours laboratory.</td>
<td>SPCH 46</td>
</tr>
</tbody>
</table>
COM 53  FORENSIC SPEECH/DEBATE  4.5 Units
Formerly SPCH 53.
Advisory: COMM 1A and/or 1B.
Four hours lecture, one and one-half hours laboratory.
Study of public oratory, adjudicated debate and forensic speech; application of principles to the preparation and delivery of speeches; structure and format of various forms of debate and participation in debate activities. Students encouraged to attend intercollegiate forensic tournaments.

COMM 54  INTERCOLLEGiate SPEECH/DEBATE  1.5 Units
COMM 54X  2.5 Units
COMM 54Y  3.5 Units
COMM 54Z  4.5 Units
Formerly: SPCH 54
Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.
Any combination of COMM 54, 54X, 54Y & 54Z may be taken for a maximum of six times for credit.
One hour lecture, one and one-half hours laboratory.
Training in principles of debate and forensic speech; preparation for participation in competitive debate, extemporaneous speaking and oratory. Students required to attend and participate in intercollegiate forensic tournaments.

COMM 55  PROFESSIONAL & CAREER COMMUNICATION  4.5 Units
Formerly: SPCH 55
Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.
Four hours lecture, one and one-half hours laboratory.
Introduction to communication in organizational and career contexts. Interviewing, interpersonal and intercultural communication, group interactions, and professional presentations. Application of theories and skills through critically evaluated exercises.

COMM 105  SPEAKING WITH CONFIDENCE  4.5 Units
Formerly: SPCH 105
Four hours lecture, one and one-half hours laboratory.
Emphasizes experiences in verbal communications specifically designed to reduce speaking anxiety/communication reticence. Development of practical skills in academic, social and work/professional situations where success is largely dependent on clear, effective communication.

COMM 190  DIRECTED STUDY  .5 Unit
COMM 190X  1 Unit
COMM 190Y  1.5 Units
COMM 190Z  2 Units
Formerly: SPCH 190
Advisory: Pass/No Pass.
Any combination of COMM 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.
One-half hour lecture, one and one-half laboratory.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

COMPUTER INFORMATION SYSTEMS

Computers, Technology & Information Systems Division  (650) 949-7236   www.foothill.edu/ctis/

CIS 1  INTRODUCTION TO COMPUTER SCIENCE  5 Units
Four hours lecture, four hours laboratory.
Provides a broad overview of the field of computer science and an introduction to software engineering. Introduces hardware, software, information systems, software development and networking. Uses a subset of a programming language to study programming and problem solving.

CIS 2  COMPUTERS & SOCIETY  5 Units
Advisory: MATH 101; ENGL 1A or ESL 26.
Four hours lecture, four hours laboratory.
A critical examination of the capabilities and uses of modern computers and how they affect society. Hands-on introduction to selected applications such as document creation, manipulation of numeric data, accessing information, decision support and expert systems, graphics and multimedia. [CAN CSCI 2]

CIS 12A  FUNDAMENTALS OF VISUAL BASIC.NET PROGRAMMING  5 Units
Advisory: MATH 101.
Four hours lecture, four hours laboratory.
Introduction to computer programming using the Visual Basic.NET Language; provides an overview of computer organization and an introduction to software engineering. Topics include methodologies for program design, development, style, testing and documentation; algorithms, control structures, objects, classes, file I/O, and elementary data structures. [CAN CSCI 6]

CIS 12C  INTERMEDIATE VISUAL BASIC PROGRAMMING  5 Units
Advisory: CIS 12A or equivalent.
Four hours lecture, four hours laboratory.
Intermediate/advanced level course for programming and human computer interaction (HCI) using VB.NET. Includes but not limited to overview of OOP, designing classes, advanced objects, and advanced validation techniques; design and usability features using VB.NET forms and controls; database integration using SQL-Server and ADO.NET; web development using Visual Web Developer; in addition to .NET security and deployment features.

CIS 12D  ADVANCED VISUAL BASIC.NET FOR WINDOWS-BASED APPLICATIONS  5 Units
Advisory: CIS 12A or equivalent.
Four hours lecture, four hours laboratory.

CIS 12W  DEVELOPING WEB APPLICATIONS WITH VB.NET  5 Units
Advisory: CIS 12A.
Four hours lecture, four hours laboratory.
Developing Web Applications using the VB.NET language. Visual Basic.NET is one of the latest programming languages from Microsoft designed to support the Internet solutions. Using the Internet related classes in the .NET Framework, VB.NET provides a powerful set of tools both for constructing Web Forms applications using ASP.NET as well as XML Web Services. This Course, which assumes a basic understanding of VB or C# programming, covers all of the key elements of building Web Applications and is targeted at preparing students for the Microsoft Web Applications Certification Exam.

CIS 15A  COMPUTER SCIENCE I: C++  5 Units
Advisory: MATH 101
Four hours lecture, four hours laboratory.
Introduces the discipline of computer science using the ANSI C++ language; provides an overview of computer organization and an introduction to software engineering. Topics include methodologies for program design, development, style, testing and documentation; algorithms, control structures, sub-programs, elementary data structures. [CAN CSCI 22 = CIS 15A OR 27A]

CIS 15B  COMPUTER SCIENCE II: C++  5 Units
Advisory: CIS 15A.
Four hours lecture, four hours laboratory.
A systematic approach to the design, construction, and management of computer programs, emphasizing object-oriented design and programming, documentation, testing and debugging techniques. Focuses on classes, strings, arrays, pointers, and dynamic allocation, and file I/O in the C++ programming language. Examples include use of basic programming tools and concepts in C++.

CIS 15C  COMPUTER SCIENCE III: C++  5 Units
Advisory: CIS 15B or equivalent.
Four hours lecture, four hours laboratory.
A systematic approach to the design and construction of data structures and algorithms. Focuses on defining abstract data types, including arrays, stacks, queues, trees, and graphs as well as searching and sorting techniques and recursive programming techniques. All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

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### CIS 15D  DESIGNING WITH C++ CLASSES  5 Units

**Advisory:** CIS 15P or CIS 15B

Four hours lecture, four hours laboratory.

Survey of the practice, theory and advanced techniques of object-oriented computer programming using the C++ programming languages in a practical and realistic software environment.

### CIS 15P  C++ FOR PROGRAMMERS  5 Units

**Advisory:** CIS 25A, CIS 27B or equivalent C or JAVA programming class.

Four hours lecture, four hours laboratory.

Introduction to the theory and techniques of object-oriented computer programming using the C++ programming language. Encapsulation, polymorphism, and inheritance including both single and multiple inheritance. The syntax of C++ will be introduced in a context that stresses both the theoretical and practical advantages of object-oriented design methodology.

### CIS 18  DISCRETE MATHEMATICS  5 Units

**Prerequisites:** MATH 49.

**Advisory:** Not open to students with credit in MATH 22.

Five hours lecture, one hour laboratory.

Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees. [CANCSCI 26 = CIS 18 OR MATH 22]

### CIS 19A  INTRODUCTION TO PROGRAMMING WITH C#  5 Units

**Advisory:** CIS 12A or 15A or 27A.

Four hours lecture, four hours laboratory.

Introduction to programming using the C# language. C# is a new programming language which was developed expressly for the .NET platform. C#.NET has now become the exclusive language used by Microsoft for all of its internal development. This course provides an introduction to basic object-oriented programming constructs from the point of view of C#. Students will learn how to build both console and Windows forms based applications.

### CIS 19D  DEVELOPING WINDOWS-BASED APPLICATIONS WITH C#  5 Units

**Advisory:** CIS 19A.

Four hours lecture, four hours laboratory.

Developing Windows Based Applications using C#. Internally, Microsoft has shifted the development of all new projects to the use of C#. C# is a new, purely maintenance tasks for existing products. Evidencing Microsoft’s commitment to C#, the next version of the Windows Operating System (codename Longhorn) will largely replace the Win32 API with the .NET Framework. C# is a powerful new programming language which grafts the rapid application development capabilities of Visual Basic onto the strongest features of C++. This Course, which assumes a basic understanding of C# programming, covers all of the key elements of building classic WinForms Applications and is targeted at preparing students for the Microsoft Windows-Based Applications Certification Exam.

### CIS 19K  USER INTERFACE DESIGN WITH EXPRESSIONS BLEND  5 Units

**Advisory:** CIS 19M, COIN 78.

May be repeated three times for credit.

Four hours lecture, four hours laboratory.

Expression Blend is a new tool from Microsoft for designing both Windows and Web user interfaces using XAML, an XML derivative. Blend seamlessly permits the incorporation of audio, video, 2D and 3D vector art, bitmap images and animations into stunning user interfaces. Through data binding and other markup extensions, XAML permits the implementation of a considerable degree of functionality without requiring a full fledged programming language such as C#. At the same time, Blend is able to totally coordinate with Visual Studio so that the same project can be worked on simultaneously by a designer using Blend and by a C# developer using Visual Studio. Blend will ultimately be used both by professional user interface designers and by developers for most WPF (Windows Presentation Foundation) UIs since its feature set for design purposes is considerably richer than the equivalent designer in Visual Studio.

### CIS 19L  WINDOWS COMMUNICATION FOUNDATION (WCF) INTRODUCTION  5 Units

**Advisories:** CIS 12D, 12W, 19D, 19W.

May be taken three times for credit.

Four hours lecture, four hours laboratory.

This course provides students with an understanding of the Windows Communication Foundation and the skills required to use this Framework to develop services-oriented applications (SOA) on Windows. This course will explain how to take advantage of built-in features of Version 3.0 (and following) of the .NET Framework such as service hosting, instance management, asynchronous calls, synchronization, reliability, transaction management, disconnected queued calls and security to build distributed applications.

### CIS 19M  WINDOWS PRESENTATION FOUNDATION (WPF) - INTRODUCTION  5 Units

**Advisory:** CIS 12C, CIS 19D, COIN 78.

May be taken three times for credit.

Four hours lecture, four hours laboratory.

This course provides students with an understanding of the Windows Presentation Foundation and the skills required to use this Framework to create both dynamic C# and Windows Forms and browser hosted applications. WPF is a new programming paradigm introduced in Version 3.0 of the .NET Framework as an alternative to traditional Windows Forms programming. WPF effectively permits the separation of user interface design (to be principally implemented by designers) from the underlying functionality (to be implemented by developers). WPF also permits almost any control to host any other control, thereby allowing dramatic user interface such as buttons hosting videos or 3D drawings.

### CIS 19N  DEPLOYING .NET APPLICATIONS  5 Units

**Advisories:** CIS 12C, CIS 19D.

May be taken three times for credit.

Four hours lecture, four hours laboratory.

This course provides students with an understanding of how to deploy .NET applications using Microsoft Installer, MSBuild and ClickOnce technologies. The course will address the installation of both Windows Forms applications and Web Applications. It also covers both initial installations and service packs as well as patches and other updates.

### CIS 19P  ADVANCED PROGRAMMING WITH C#  5 Units

**Advisory:** CIS 12A or 15A or 19A or 27A.

Four hours lecture, four hours laboratory.

Advanced programming using the C# language. C# is a new programming language introduced by Microsoft as an intended replacement for C++. It is an attempt to leap-frog Java. C# incorporates the power and speed of C++ with the rapid design features of Visual Basic. C# extends its heritage as a fully object oriented language and broadens its scope from suitability for forms based applications to web based applications as well. This course explores how to create forms based applications with this powerful, yet simple, new programming language. It explains how to leverage the hundreds of built in classes provided by the .NET Framework to quickly and efficiently build robust applications.

### CIS 19V  USING VISUAL STUDIO TOOLS FOR OFFICE  5 Units

**Advisory:** CIS 12A or CIS 19A.

May be taken three times for credit.

Four hours lecture, four hours laboratory.

Visual Studio Tools for Office (VSTO) is an add-in to Visual Studio 2005 which allows developers to build Microsoft Office related applications. VSTO applications can take three forms: (1) Office automation, (2) Office add-ins and (3) Code behind Office documents. Office automation refers to a C# or VB.NET application which uses some capability of one or more Office applications to perform a given task. For example, an application could use either Word or Excel to print a document pursuant to some pre-designed format. Office add-ins are applications which run at the same time as the Office application with which they are associated and which appear to be an integral part of the application's user interface. Code behind Office documents correspond to classic Visual Basic for Applications (VBA) projects which customize a particular Office document. This course will teach students how to use VSTO to build all three types of Office related applications.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>CIS 19W</td>
<td>DEVELOPING WEB APPLICATIONS</td>
<td>5</td>
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<td>Advisory: CIS 19A.</td>
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<td></td>
<td>Four hours lecture, four hours laboratory.</td>
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<tr>
<td></td>
<td>Developing Web Applications using C# language.</td>
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<td>C# is the first programming language from Microsoft designed for the Internet. Using the Internet related classes in the .NET Framework, C# provides a powerful set of tools both for constructing Web Forms applications using ASP.NET as well as XML Web Services. This course assumes a basic understanding of C# programming, covers all of the key elements of building Web Applications and is targeted at preparing students for the Microsoft Web Applications Certification Exam.</td>
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<tr>
<td>CIS 25A</td>
<td>PROGRAMMING IN C</td>
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<td></td>
<td>Advisory: Knowledge of a high-level programming language.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td></td>
<td>Intensive introduction to the C programming language and its applications. Emphasis on C syntax and structured programming, independent of particular operating systems or compilers. Designed for individuals who have a good grasp of computer fundamentals and some programming experience.</td>
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<tr>
<td>CIS 25B</td>
<td>ADVANCED PROGRAMMING IN C</td>
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<td>Advisory: CIS 25A or equivalent.</td>
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<td></td>
<td>Four hours lecture, four hours laboratory.</td>
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<td></td>
<td>Advanced professional programming in C. The C compiler, code generation, subroutine linkage, structured programming, complex declarations, memory allocation, use of the heap and stack, multidimensional arrays, advanced pointers, recursion, I/O, debugging and portability.</td>
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<tr>
<td>CIS 27A</td>
<td>COMPUTER SCIENCE I: JAVA</td>
<td>5</td>
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<td>Advisories: MATH 101.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td>Introduces the discipline of computer science using the Java language; provides an overview of computer organization and an introduction to software engineering. Topics include methodologies for program design, development, style, testing and documentation; algorithms, control structures, sub-programs, objects, and elementary data structures.</td>
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<tr>
<td>CIS 27B</td>
<td>COMPUTER SCIENCE II: JAVA</td>
<td>5</td>
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<td>Advisory: CIS 27A or equivalent.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td>A systematic approach to the design, construction, and management of computer programs, emphasizing object oriented design and programming, documentation, testing and debugging techniques. Focuses on classes, inheritance, graphical user interfaces, event-driven programs, Web apps, and disk files. Introduction to basic data structures. Builds on the concepts presented in CIS 27A.</td>
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<tr>
<td>CIS 27C</td>
<td>COMPUTER SCIENCE III: DATA STRUCTURES &amp; ALGORITHMS IN JAVA</td>
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<td>Advisory: CIS 27B.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td>A systematic approach to the design and construction of programs using common data structures and their associated algorithms. Focuses on defining abstract data types including arrays, stacks, queues, and trees, as well as searching and sorting techniques, disk files, and recursive programming techniques. Builds on the concepts presented in CIS 27B.</td>
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<tr>
<td>CIS 27D</td>
<td>JAVA ADVANCED FEATURES</td>
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<td>Advisories: CIS 27B or 27P.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td>Covers several of the more important advanced features of Java not normally covered in CIS 27A or 27B. Topics will include, but will not be limited to, input and output streams, multithreading networking, Remote Method Invocation (RMI), Java Beans, 2D graphics, advanced multimedia and other topics at the discretion of the instructor.</td>
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<tr>
<td>CIS 27P</td>
<td>JAVA FOR PROGRAMMERS</td>
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<td>Advisory: Prior C/C++ programming experience.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td>A comprehensive course in the Java programming language intended for students with previous experience programming in C or C++ and a basic understanding of computer science concepts. Provides instruction in object-oriented programming in Java and the use of classes, data abstraction, arrays, strings, graphics, GUI, files, exception handling and applets. Note: Students with no programming experience who wish to learn Java should opt for CIS 27A.</td>
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<tr>
<td>CIS 30</td>
<td>SELECTED TOPICS IN PROGRAMMING TECHNOLOGY</td>
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<td>May be taken three times for credit.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td></td>
<td>Introduction to various programming languages and software development tools.</td>
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<tr>
<td>CIS 50A</td>
<td>USING THE COMPUTER: PC (WINDOWS)</td>
<td>5</td>
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<td>Advisors: Not open to students with credit in CIS 50B.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td>Introduction to the computer and its uses for the student with little or no computer experience. Use of the IBM PC (Windows) for hands-on experience with a word processor, a spreadsheet, a database manager, graphics, file management techniques, simple software configuration, an Internet browser, and the use of a programming language. Discussion of other software applications and of the role of computers and the information superhighway in our society.</td>
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<td>CIS 51A</td>
<td>PREPARATION FOR TECHNOLOGY CAREERS</td>
<td>3</td>
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<td>One and one-half hours lecture, one and one-half hours lecture-laboratory, two hours laboratory.</td>
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<td>Introduction to Foothill College technology programs. CIS 51A prepares students to differentiate among the technology careers and enter the career path of their choice. The local opportunities in technology careers to be discussed. In addition, professional and academic preparations, basic skills needed and resources available at Foothill College and aligned schools and industry will be thoroughly reviewed.</td>
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<td>CIS 51C</td>
<td>WORKPLACE PRINCIPLES &amp; PRACTICES</td>
<td>4</td>
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<td>Advisory: Grade of C or better in ENGL 110 or ESL 25, or eligibility for ENGL 1A or ESL 26.</td>
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<td>One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.</td>
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<td>Concepts, principles and practices in the information technology workplace. Emphasis on the issues of currency, certification, ethical decision-making, globalization, diversity, organizational roles and responsibilities, collaboration and work-teams, customer service and total quality management apply to the information technology workplace.</td>
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<td>CIS 52A</td>
<td>INTRODUCTION TO DATA MANAGEMENT SYSTEMS</td>
<td>5</td>
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<td>Advisories: CIS 50A, 50B, or 50.</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td>Introduction to database systems and data management. Topics include database definitions and concepts, relational database, client/server database, Internet database, distributed database, object-oriented database, data warehousing, transaction management, database administration, database performance, and hands-on experience with a database management system.</td>
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<td>CIS 52B</td>
<td>ORACLE SQL</td>
<td>5</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td>Introduction to Oracle 10g Structured Query Language used in creating, querying, manipulating, and controlling access to the data in a relational database. Students will learn Oracle SQL Plus /iSQL Plus to control elements in a SQL environment. Other topics include advanced querying, manipulating data in different time zones, working with large data sets, and generating reports.</td>
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<td>CIS 52B2</td>
<td>INTRODUCTION TO ORACLE SQL</td>
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<td>Four hours lecture, four hours laboratory.</td>
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<td></td>
<td>Introduction to Oracle 10g Structured Query Language used in creating, querying, manipulating, and controlling access to the data in a relational database. Students will learn Oracle SQL Plus /iSQL Plus to control elements in a SQL environment. Other topics include advanced querying, manipulating data in different time zones, working with large data sets, and generating reports.</td>
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</tbody>
</table>
CIS 52C DATABASE MODELING & RELATIONAL DATABASE DESIGN 5 Units
Four hours lecture, four hours laboratory.
Introduction to data modeling and the process of database design. This course covers the database development process, entity-relationship model, logical and physical database design.

CIS 52E ORACLE DATABASE ADMINISTRATION I 5 Units
Four hours lecture, four hours laboratory.
The basics of Oracle 10g database administration. Overview of Oracle architecture and how each component works; the creation, management, and maintenance of a database and its users; backup and recovery; performance monitoring; Oracle database security; Oracle Net Services; Oracle shared servers; and lock monitoring. Prepares students to take the Oracle Certified Associate exam and the Oracle Certified Professional exam.

CIS 52F ORACLE DATABASE ADMINISTRATION II 5 Units
Four hours lecture, four hours laboratory.
Introduction to Oracle 10g database recovery tools such as RMAN, SQL and Flashback technology; Resource Manager; the Scheduler; Automatic Storage Management (ASM); database performance monitoring tools; and globalization support. Prepares students to take the Database Administration Oracle Certified Professional exam.

CIS 52G ORACLE: PROGRAM WITH PL/SQL 5 Units
Four hours lecture, four hours terminal time.
Oracle 10g PL/SQL Programming Language for the Structured Query Language. This course covers the benefits, concepts, application, and management of PL/SQL program units. Students will learn how to create PL/SQL blocks, stored procedures, functions, packages, and database triggers; how to manipulate large objects, use Oracle-supplied packages, and manage dependencies.

CIS 52H ORACLE FORMS DEVELOPER: BUILD INTERNET APPLICATIONS 5 Units
Four hours lecture, four laboratory.
Introduction to developing, testing, and deploying of Internet applications using Oracle's Developer Suite10g. Students will learn how to build and customize forms, control data access through event-related triggers, display Form elements in multiple windows, test and debug Web applications. This course helps students prepare for one of the exams in the Oracle Forms Developer Certified Professional Program.

CIS 52I ORACLE NEW FEATURES FOR DATABASE ADMINISTRATORS 5 Units
Four hours lecture, four hours laboratory.
Introduces the new features in Oracle Database 10g to simplify database management and performance tuning and monitoring. The course covers general and automatic storage management, backup and recovery enhancements, security, Oracle Database 10g Advisors, and other miscellaneous new features. Helps students prepare for the upgrade exam from Oracle9i to Oracle 10g Database Administration Oracle Certified Professional.

CIS 52J ORACLE REPORTS 5 Units
Four hours lecture, four hours laboratory.
Using Oracle Reports Developer 10g to design, create, and enhance standard and custom Web and paper reports. Students learn how to access, display, and format data in different reporting styles, add dynamic content to a Web page, and publish the output. Students will also learn how to customize complex reports, embed graphical charts, and use OracleAS Reports Services to maximize report performance.

CIS 52K PHP & MYSQL 5 Units
Four hours lecture, four hours laboratory.
Students learn how to code PHP and MySQL languages used to generate powerful, database-driven, dynamic Web sites. This course covers the rudiments of PHP programming, including the anatomy of a PHP script, operators, strings, conditionals, loops, arrays, and functions; and MySQL capabilities, including MySQL command-line options, connecting to the database, and phpMyAdmin tool.

CIS 52L MICROSOFT SQL SERVER DATABASE ADMINISTRATION 5 Units
Four hours lecture, four hours laboratory.
This course provides students with the knowledge and skills in implementing and maintaining a database administration solution using Microsoft SQL Server 2005. The course includes training in the designing database server infrastructure, security for a database server solution, physical database, database solutions for high availability, data recovery solution for a database, and strategy for data archiving. The second course in the Microsoft MCITP certification series designed to prepare students for Microsoft MCITP Exam 70-443.

CIS 52M INTRODUCTION TO GAME DESIGN 5 Units
Four hours lecture, four hours laboratory.
Introduction to developing, testing, and deploying of Internet applications using Oracle's Developer Suite10g. Students will learn how to build and customize forms, control data access through event-related triggers, display Form elements in multiple windows, test and debug Web applications. This course helps students prepare for one of the exams in the Oracle Forms Developer Certified Professional Program.

CIS 52N MICROSOFT SQL SERVER 2005 5 Units
Not repeatable
Four hours lecture, four hours laboratory.
This course provides students with the knowledge and skills in implementing and maintaining a database administration solution using Microsoft SQL Server 2005. The course includes training in the designing database server infrastructure, security for a database server solution, physical database, database solutions for high availability, data recovery solution for a database, and strategy for data archiving. The second course in the Microsoft MCITP certification series designed to prepare students for Microsoft MCITP Exam 70-443.

CIS 52O INTRODUCTION TO GAMES 5 Units
Four hours lecture, four hours laboratory.
An overview of the game development industry including the positions and job responsibilities that each member of a game development team has along with the industry requirements for documentation. Introduces the student to the software development process. Students will create individual games using a game development environment. This class does not require any programming.

CIS 52P MICROSOFT SQL SERVER 2005 DATABASE ADMINISTRATION 5 Units
Four hours lecture, four hours laboratory.
This course provides students with the knowledge and skills in implementing and maintaining a database administration solution using Microsoft SQL Server 2005. The course includes training in the designing database server infrastructure, security for a database server solution, physical database, database solutions for high availability, data recovery solution for a database, and strategy for data archiving. The second course in the Microsoft MCITP certification series designed to prepare students for Microsoft MCITP Exam 70-443.

CIS 52Q MYSQL: IN-DEPTH 4 Units
Four hours lecture, four hours laboratory.
In-depth study of MySQL 5.0. Overview of MySQL architecture and configuration; MySQL Administrator features; MySQL storage engines; table and user maintenance; backup and recovery; optimizing queries, databases, server, and the environment; and securing the MYSQL installation. This course also covers data manipulation and data definition language; triggers, stored procedures, and functions; and database metadata. Prepares students to take the MySQL 5.0 Database Administrator and MySQL 5.0 Developer Certification exams.

CIS 52R ESSENTIALS OF POSTGRESQL ADMINISTRATION 5 Units
Two hours lecture, four hours laboratory.
The course includes training in using and managing the latest version of the PostgreSQL Open Source database. Includes hands-on training in the installation of PostgreSQL, the creation and maintenance of database objects, administration of the PostgreSQL architecture, and software and security optimization techniques.

CIS 52S MICROSOFT SQL SERVER DATABASE DESIGN 5 Units
Not repeatable
Four hours lecture, four hours laboratory.
This course provides students with the knowledge and skills in implementing and maintaining a database administration solution using Microsoft SQL Server 2005. The course includes training in the designing database server infrastructure, security for a database server solution, physical database, database solutions for high availability, data recovery solution for a database, and strategy for data archiving. The second course in the Microsoft MCITP certification series designed to prepare students for Microsoft MCITP Exam 70-443.

CIS 52T INTRODUCTION TO GAME DESIGN 5 Units
Four hours lecture, four hours laboratory.
An overview of the game development industry including the positions and job responsibilities that each member of a game development team has along with the industry requirements for documentation. Introduces the student to the software development process. Students will create individual games using a game development environment. This class does not require any programming.

CIS 52U INTRODUCTION TO GAME DESIGN 5 Units
Four hours lecture, four hours laboratory.
A systematic approach to the design and construction of computer games and real time simulations. Covers topics such as design theory and programming techniques. Students will create small scale games and game components.
CIS 55C  PRACTICAL GAME DESIGN  5 Units
Advisory: CIS 55B.
Four hours lecture, four hours Laboratory.
A project based approach to the practice and art of computer game design and Real-time simulations. Emphasizes the practical techniques and procedures necessary to create a game. Working in teams, students will design and create a real-time interactive game. The C++ programming language will be used to implement projects.

CIS 60  INTRODUCTION TO BUSINESS INFORMATION SYSTEMS  5 Units
Advisory: MATH 101 or equivalent and eligibility for ENGL 1A or ESL 26.
Four hours lecture, four hours terminal time.
Introduction to the concepts of business information systems especially as used in business and similar organizations. Covers the need for information, how computers are used in business to provide information, elements of computer hardware and software, software development, data storage and communication, and the social impact of computers. Hands-on introduction to programming concepts, word processing, spreadsheet and database applications. [CAN BUS 6]

CIS 61A  INFORMATICS  5 Units
Advisory: CIS 60 or equivalent.
Four hours lecture, four hours laboratory.
Orientation to the Foothill College Informatics program. The course has two goals for participating students - to help the student in differentiating among the potential careers paths in the field of informatics, and to prepare the student in the career path chosen. Opportunities in informatics and related careers to be discussed. Interest, aptitude and readiness for a career in informatics will be analyzed by the student. Professional and academic preparation, basic skills needed and resources available at Foothill College and aligned schools and industry will be covered through discussion and classroom laboratory applications.

CIS 61B  PREPARATION FOR CAREERS IN INFORMATICS  2 Units
Advisory: Not open to students with credit in CIS 51A.
Two hours lecture, one hour laboratory.
Introduction to the concepts, practice and tools underlying the study of Informatics. Topics include, but not limited to, Information representation and infrastructure, Meta data, the Semantic web, knowledge management, data warehousing, data mining, user interface, analytical tools, careers, industry trends, social, global and organizational impacts, and applications in business, industry and education.

CIS 61C  INFORMATICS TOOLS & METHODS  5 Units
Advisory: CIS 61A or equivalent; MATH 10; familiarity with SQL.
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, four hours terminal time.
Introduces students to the methods of using Excel, Access, Informatica, and SAS in solving informatics problems. Hands on use of each tool in combined directed data analysis, integration, and migration activities. Hands on exercises with business intelligence tools, creating reports, customizing dashboards, and use of Meta directories. Use of SQL queries on data cubes for creating custom and automated reports.

CIS 61X  INFORMATICS PROJECTS  1 Unit
CIS 61Y  2 Units
CIS 61Z  3.5 Units
Advisory: CIS 61A, CIS 63B or equivalent.
One-half hour lecture, two hours terminal time for each unit of credit.
Projects course for demonstrating working knowledge of Informatics process and architecture. Students will create an Informatics project incorporating data storage, analysis, and reporting. Typical projects will include, but not be limited to, data mining, visualization, Web-database integration, and XML report formats. Goal of the project is to demonstrate working knowledge, skills, and abilities in Informatics. Concurrent work experience and projects may be submitted with consent of instructor.

CIS 62A  DATA WAREHOUSING & DATA MINING  5 Units
Advisory: CIS 52C or equivalent.
Four hours lecture, four hours laboratory.
Students will learn the key aspects of data warehousing and visual data mining using a project building approach. Through 'hands on' activities students will work with data models that detect patterns in business data sets. Topics include data warehouse design and implementation, data migration strategies, automation technique, visual data mining, tools integration and metadata for end user reporting and utilization.

CIS 62B  MODELING & SIMULATION  5 Units
Four hours lecture, four hours laboratory.
This course focuses on the fundamentals of interactive computer simulation. Students will explore the use of simulation for a specific application such as for training, to entertain with virtual worlds, or to create digital laboratories for biotechnology or for designing new products. Students will learn to use modeling and simulation software to create models and insert them into virtual worlds. Topics discussed include: basic concepts of simulation modeling, types of simulation modeling techniques including discrete, continuous modeling as well as animation and simulation modeling. Students will case studies in depth and complete a hands-on modeling and simulation project using simulation software.

CIS 63A  SYSTEMS ANALYSIS, DESIGN & HUMAN INTERFACE  5 Units
Advisory: CIS 60 or equivalent. Familiarity with object-oriented computer applications, PowerPoint®, Flash® or equivalent presentation software.
Four hours lecture, four hours laboratory.
Introduction to systems development, techniques and tools. Special emphasis is placed on analysis, design and evaluation techniques particularly relevant to HCI. Graphic interface tools are used as a design and implementation prototyping environment.

CIS 63A1  SYSTEMS ANALYSIS & DESIGN  5 Units
Prerequisite: CIS 60 or equivalent.
Advisory: Database or application programming, PowerPoint® or Visio® or equivalent presentation/diagramming software.
Four hours lecture, four hours laboratory.
Introduction to systems development, techniques and tools. Emphasis is placed on analysis, design and evaluation techniques using traditional and object oriented models. Tools used for the elements of system development will include current popular project management and diagramming applications. The focus of the course is on systems analysis and design in relation business information systems development with the use of CASE tools.

CIS 63B  DESIGN & ANALYSIS FOR INFORMATICS RESEARCH  5 Units
Advisories: MATH 10 and CIS 63A or equivalent.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
Examines the concepts, techniques, tools and methods used typically in informatics research. Topics presented are directed toward analysis of experimental, quasi-experimental and survey data. Hands-on experience with such packages as EXCEL and SAS or SPSS to collect, organize and process data. Emphasis on data integrity, data visualization descriptive statistics, ANOVA, and REGRESSION analyses.

CIS 64A  COMPUTERIZED ACCOUNTING PRACTICE  1 Unit
Prerequisites: ACTG 1A or equivalent experience.
Advisory: MATH 10 or high school algebra recommended. Not open to students with credit in ACTG 64A.
Two hours lecture-laboratory.
Practice in accounting procedures and review of accounting principles. Recording business transactions in accounting records and completing the accounting cycle using the computer.

CIS 64B  COMPUTERIZED ACCOUNTING: SPREADSHEET  1 Unit
Prerequisite: ACTG 1B or equivalent experience.
Advisory: MATH 10 or high school algebra recommended. Not open to students with credit in ACTG 64B.
Two hours lecture-laboratory.
Practice in using an electronic spreadsheet program to organize and process financial and managerial accounting data. Includes analysis of spreadsheet reports.

CIS 68A  INTRODUCTION TO LINUX & UNIX  5 Units
Advisory: CIS 50A or 50B or equivalent.
Four hours lecture, four hours laboratory.
An introduction to the Linux and UNIX operating systems, primarily focused on command line usage. Covers the kernel, file systems, shells and user utilities. Also introduces students to the fundamentals of shell programming, processes, communications, and basic security.
CIS 68B LINUX & UNIX SHELL PROGRAMMING 5 Units
Advisory: CIS 68A or equivalent.
Four hours lecture, four hours terminal time.
LINUX shell script programming using the Bourne Again shell programming language (bash) and UNIX utilities to create practical shell scripts.

CIS 68C1 LINUX & UNIX SYSTEM ADMINISTRATION 5 Units
Advisory: CIS 68A or equivalent.
Four hours lecture, four hours laboratory.
Introduction to basic system administration of Linux and UNIX systems. Overview of basic PC hardware, system boot process, administration utilities, and management of user accounts, file systems, basic networking, printing, security, accounting and logging. Software install and removal using source code and package managers. Kernel updating and boot managers.

CIS 68C2 LINUX & UNIX NETWORKING ADMINISTRATION 5 Units
Advisory: CIS 68A, 68B1 and 68C1 or equivalent experience.
Four hours lecture, four hours laboratory.
Advanced networking administration of the UNIX operating system. Hands on experience with network setup, configuration and maintenance.

CIS 68E PROGRAMMING IN PERL 5 Units
Advisory: CIS 15A or 25A or 27A, and CIS 68A.
Four hours lecture, four hours laboratory.
Programming in the UNIX environment, PERL, to create utility programs.

CIS 68H BIOPERL PROGRAMMING FOR BIOINFORMATICS 5 Units
Advisory: CIS 68E or COIN 68 or equivalent.
Four hours lecture, four hours laboratory.
This course will introduce BioPerl modules in the analysis of bioinformatics data, including downloading, installing and configuring BioPerl in a Windows environment. Using BioPerl modules, this course will show the student how to retrieve, analyze and manipulate genomic/proteomics sequences from databases such as GenBank and GenPept, RefSeq, SWISSPROT, EMBL, etc. It will show how to use BioPerl modules to convert between and from various file formats including FASTA, SWISSPROT, and EMBL. It includes extracting annotations/features from sequence files, performing similar sequence searches and using sequence alignments. BioPerl modules exercises include running applications such as BLAST, Smith-Waterman, Clustalw, HMMER etc. This course is intended for bioinformatics students with a strong foundation in PERL, which is provided by the course CIS 68J.

CIS 68J PERL PROGRAMMING FOR BIOINFORMATICS 5 Units
Advisory: CIS 59A or equivalent.
Four hours lecture, four hours laboratory.
Provides a strong foundation in PERL programming for Bioinformatics, which has become a required ‘lab skill’ for biologists. It shows the student how to use PERL in a Windows environment to solve programming problems such as creating, modifying, comparing and deleting biological data files, searching for motifs in these data files, manipulating sequences found in these data files etc. Elucidates basic programming concepts such as operators, conditional and looping constructs, file operations and regular expressions. Class exercises emphasize use of biological sequence data for bioinformatics problem solving. This course provides the requisite skills to successfully complete the CIS 68H course.

CIS 68K INTRODUCTION TO PYTHON PROGRAMMING 5 Units
Advisory: CIS 15A or 27A, and CIS 68A.
Four hours lecture, four hours laboratory.
This course will introduce students to the Python language and environment. Python is a portable, interpreted, object-oriented programming language that is often compared to PERL, Java, Scheme and Tcl. The language has an elegant syntax, dynamic typing, and a small number of powerful, high-level data types. It also has modules, classes, and exceptions. The modules provide interfaces to many system calls and libraries, as well as to various windowing systems (X11, Motif, Tk, Mac, MFC). New built-in modules are easily written in C or C++. Such extension modules can define new functions and variables as well as new object types.

CIS 68L INTERMEDIATE PYTHON PROGRAMMING 5 Units
Advisories: CIS 68K
Four hours lecture, four hours laboratory.
Extends the students’ understanding of how to write effective applications in the Python programming language. Covers topics that allow a Python program to interface to users, networked applications and databases. Includes advanced topics like multithreading and regular expressions. Enforces object oriented design, thorough documentation, testing and conventional programming style.

CIS 68M INTERMEDIATE PERL PROGRAMMING 5 Units
Advisory: Either, CIS 68E or, some PERL programming experience and CIS 68B.
Four hours lecture, four hours laboratory.
This course presents core PERL language features used to manage the development and complexity of PERL programs requiring hundreds if not thousands of lines of code. An in depth presentation of references and arbitrarily complex data structures provide a basis for object-oriented PERL. PERL and Linux/Unix based mechanisms for release cycle control, unit testing, and code packaging (i.e. a distribution) are also presented.

CIS 78 SOFTWARE ENGINEERING 5 Units
Advisory: Any structured programming class.
Four hours lecture, four hours laboratory.
A language-independent study of current software development methodologies. The stages of systems analysis, product design, implementation and testing are practiced. Collaborative, interactive design and technical writing are problem solving techniques learned.

CIS 93U CIS EXPERIENTIAL INTERNSHIP 3 Units
CIS 93V 4 Units
CIS 93W 6 Units
May be taken for a maximum of 18 units of credit. Three hours laboratory for each unit of credit.
Nine hours laboratory.
Off-campus supervised experiential education of CIS students in database administration, computer software development or Informatics. Opportunity for practical application of knowledge, skills and abilities acquired in CIS and related course work. Exposure to varied protocols, methodologies and practices in a professional working environment.

CIS 96 SPECIAL PROJECTS 1 Unit
CIS 96X 2 Units
CIS 96Y 3 Units
Any combination of CIS 96, 96X & 96Y may be taken for a maximum of nine units.
Three hours laboratory for each unit of credit.
Individual research and/or projects in computer information systems, computer science or data communication.

CIS 102 COMPUTER KEYBOARDING SKILLS .5 Unit
Advisory: Not open to students with credit in CAST 102. Pass/No Pass.
One hour lecture-laboratory.
Beginning keyboarding course covering the operation of the keyboard using the touch system and the development of correct techniques to interact more efficiently with desktop computers, computer terminals, or electronic communication systems. Designed for independent skill learning.

CIS 111 LEARNING-COLLABORATIVE TRAINING 1 Unit
Prerequisites: An earned “A” or “B” grade with instructor recommendation in the computer, electronics or networking course in which learning assistance will be provided to students.
Advisory: Pass/No Pass.
May be taken three times for credit.
One hour lecture, two hours laboratory.
Training in strategies and skills necessary for assisting students in a collaborative learning environment; including techniques of group learning, study skills and subject-specific instructional support.
CNET 54A NETWORKING FUNDAMENTALS & THE TCP/IP PROTOCOL SUITE (CCNA 1) 5 Units
Advisory: CNET 50. May be taken three times for credit.
Four hours lecture, four hours laboratory.
The course is designed to provide students with classroom and laboratory experience in current and emerging networking technologies. The course covers topics on network infrastructure, intelligent network services, and converged network solutions. The course is designed to prepare the student for the Certified Cisco Design Professional (CCDP) certification examination.

CNET 53C ADVANCED NETWORK & SYSTEMS MANAGEMENT & TROUBLESHOOTING 5 Units
Advisory: CNET 53B or equivalent.
Four hours lecture, two hours laboratory.
The course covers advanced industry-wide network and systems management topics, including ITIL, SNMP data communication and data collection, infrastructure device discovery, topological mapping of the devices, capability to receive and respond to SNMP traps, architecture topics on managing network devices, servers, workstations, applications and databases using industry standard SNMP based tools such as OpenView. This course is designed to build upon the topics covered in CNET 53A to prepare the student for the general OpenView Certification Exam.

CNET 53B INTERMEDIATE NETWORK & SYSTEMS MANAGEMENT & TROUBLESHOOTING 5 Units
Advisory: CNET 53A or equivalent.
Four hours lecture, two hours laboratory.
The course covers industry-wide network and systems management topics, including ITIL, SNMP data communication and data collection, infrastructure device discovery, topological mapping of the devices, capability to receive and respond to SNMP traps, architecture topics on managing network devices, servers, workstations, applications and databases using industry standard SNMP based tools such as OpenView. This course is designed to build upon the topics covered in CNET 53A to prepare the student for the general OpenView Certification Exam.

CNET 53M DESIGNING CISCO INTERNETWORKING SOLUTIONS 5 Units
May be repeated three times for credit.
Four hours lecture, two hours laboratory.
This course provides students with the knowledge and skills necessary to design, configure, administer, and support Microsoft Windows 2000 XP Professional in workgroup, domain, and multiple domain network environments. The course is designed to prepare the student for the Cisco Certified Design Associate (CCDA) certification examination.

CNET 53C ADVANCED NETWORK & SYSTEMS MANAGEMENT & TROUBLESHOOTING 5 Units
Advisory: CNET 53B or equivalent.
Four hours lecture, two hours laboratory.
The course covers advanced industry-wide network and systems management topics, including ITIL, Service Management, TCP/IP communications, data collection, reporting, customized SNMP configurations, architecture topics on managing networks, systems, applications and databases. The course is designed to build upon the topics covered in CNET 53A to prepare the student for the general OpenView Certification Exam.

CNET 53N FUNDAMENTALS OF ENTERPRISE NETWORK DESIGN 5 Units
May be repeated three times for credit.
Four hours lecture, two hours laboratory.
The course provides students with the knowledge and skills necessary to design, configure, administer, and support Microsoft Windows 2000 XP Professional in workgroup, domain, and multiple domain network environments. The course is designed to prepare the student for the Certified Cisco Design Professional (CCDP) certification examination.

CNET 53A INTRODUCTION TO NETWORK MANAGEMENT 5 Units
Advisory: CNET 50 or equivalent.
Four hours lecture, two hours laboratory.
The course covers industry-wide network and systems management topics, including SNMP data communication and data collection, infrastructure device discovery, topological mapping of the devices, capability to receive and respond to SNMP traps, architecture topics on managing network devices, servers, workstations, applications and databases using industry standard SNMP based tools such as OpenView. This course is designed to prepare the student for the General OpenView Certification Exam.

CNET 53B INTERMEDIATE NETWORK & SYSTEMS MANAGEMENT & TROUBLESHOOTING 5 Units
Advisory: CNET 53A or equivalent.
Four hours lecture, two hours laboratory.
The course covers industry-wide network and systems management topics, including SNMP data communication and data collection, infrastructure device discovery, topological mapping of the devices, capability to receive and respond to SNMP traps, architecture topics on managing network devices, servers, workstations, applications and databases using industry standard SNMP based tools such as OpenView. This course is designed to prepare the student for the General OpenView Certification Exam.
CNET 54B ROUTING PROTOCOLS & CONCEPTS (CCNA 2) 5 Units
Advisory: CNET 54A or equivalent. May be taken three times for credit.
Four hours lecture, four hours lab, three hours terminal time. This course is an introduction to router and routing concepts and terminology including distance vector and link state routing, RIPv1 and RIPv2, IGRP and EIGRP routing protocols, network congestion issues, LAN segmentation using bridges and switches, cut-through and store-and-forward switches, and the operation of the Spanning Tree protocol. This class includes hands-on experience using Cisco routers. This is the third course in the Cisco Networking Academy CCNA curriculum.

CNET 54C LAN SWITCHING & WIRELESS NETWORKS (CCNA 3) 5 Units
Advisory: CNET 54B or equivalent. May be taken three times for credit.
Four hours lecture, four hours laboratory, three hours terminal time. The course is designed to provide students with classroom and laboratory experience advanced features of routers and routing concepts including the OSPF and EIGRP routing protocols, network congestion issues, LAN segmentation using bridges and switches, cut-through and store-and-forward switches, and the operation of the Spanning Tree protocol. This class includes hands-on experience using Cisco routers. This is the third course in the Cisco Networking Academy CCNA curriculum.

CNET 54D WAN TECHNOLOGIES (CCNA 4) 5 Units
Advisory: CNET 54C or equivalent. May be taken three times for credit.
Four hours lecture, four hours laboratory, three hours terminal time. Instruction includes increasingly sophisticated router configuration (WAN services: LAPB, Frame Relay, ISDN/LAPD, HDLC, PPP, and DDR); WAN switch configuration; Network Address Translation; network troubleshooting. This is the fourth of four courses designed to introduce students to current and emerging networking technology, it is preparation for the Cisco Certified Networking Associate (CCNA) certification.

CNET 54G BUILDING SCALABLE CISCO INTERNETWORKS (CCNP 1) 5 Units
Advisory: CNET 54C or CCNA Certification or equivalent. May be taken three times for credit.
Four hours lecture, four hours laboratory, three hours terminal time. This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: Building Scalable Cisco Internetworks (BSCI). Instruction includes advanced IP addressing, advanced routing protocols including OSPF, EIGRP, IS-IS, and BGP, advanced access lists, multicast routing, and IPv6.

CNET 54H IMPLEMENTING SECURE CONVERGED WANS (ISCW) 5 Units
Advisory: CNET 54D or CCNA Certification or equivalent. May be taken three times for credit.
Four hours lecture, four hours laboratory, three hours terminal time. This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: Implementing Secure Converged WANS (ISCW) exam. This course will teach advanced skills required to secure and enhance services in enterprise networks for teleworkers and remote sites. It will focus on securing remote access and VPN client configuration.

CNET 54J OPTIMIZING CONVERGED CISCO NETWORKS (ONT) (CCNP 4) 5 Units
Advisory: CNET 54G, 54H and 54I or equivalent. May be taken three times for credit.
Four hours lecture, four hours laboratory, two hours terminal time. This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: Optimizing Converged Cisco Networks (ONT). This course will teach the advanced skills required to optimize QoS in converged networks supporting voice, wireless, and security applications.

CNET 54L NETWORK SECURITY I: FIREWALLS, ACCESS, CONTROL & IDENTITY MANAGEMENT 5 Units
Advisories: CNET 54D or the Cisco CCNA Certification. May be taken three times for credit.
Four hours lecture, four hours laboratory, three hours terminal time. This course provides students with the knowledge and skills necessary to select appropriate security hardware, software, policies, and configurations based on an organization’s assessment of its security vulnerabilities in order to provide protection against known security threats. The course includes coverage of the Firewalls and the AAA Service. The concepts presented apply to all network security scenarios, the labs will feature Cisco hardware.

CNET 54M CISCO NETWORK SECURITY II: VIRTUAL PRIVATE NETWORKS, INTRUSION DETECTION SYSTEMS & PREVENTION SYSTEMS 5 Units
Advisory: CNET 54D or the Cisco CCNA Certification. May be taken three times for credit.
Four hours lecture, four hours laboratory, two hours terminal time. This course provides students with the knowledge and skills necessary to select appropriate security hardware, software, policies, and configurations based on an organization’s assessment of its security vulnerabilities in order to provide protection against known security threats. The course includes coverage of the Firewalls, Intrusion Detection, the AAA Service, and VPNs. The concepts presented apply to all network security scenarios, the labs will feature Cisco hardware.

CNET 54N FUNDAMENTALS OF CISCO WIRELESS LANS 5 Units
Advisory: CNET 54B or a basic knowledge of networking and Cisco Router configuration. May be taken three times for credit.
Four hours lecture, four hours laboratory, three hours terminal time. This course teaches students to plan, design, implement, operate and troubleshoot wireless networks. It provides a comprehensive overview of technologies, security, and design best practices required for the successful implementation of wireless local area networks. The concepts presented apply to all wireless LAN designs, the labs will feature Cisco hardware.

CNET 54Q INTRODUCTION TO VOICE OVER IP (VoIP) TECHNOLOGIES 5 Units
Advisories: CNET 54D or the Cisco CCNA Certification or equivalent experience. May be taken three times for credit.
Four hours lecture, four hours laboratory, three hours terminal time. This introductory course focuses on the basics of IP Telephony and Voice over IP technology. Participants will learn basic concepts and vocabulary of IP Telephony and Voice over IP technology. Participants will learn basic concepts and vocabulary of IP Telephony and Voice over IP technology. Emphasis will be given to hands-on skills in the areas of basic setup, automated phone setup voice interfaces, dial-peers, call park, transfer and forward, customized phone display, telephony addressing schemes and voice quality. This course is intended for individuals with basic knowledge of IP, telephone, and Voice over IP technology. Participants will learn basic concepts and vocabulary of IP Telephony and Voice over IP technology.

CNET 54R INTRODUCTION TO NETWORK SECURITY 5 Units
Advisory: CNET 50 or equivalent. Four hours lecture, two hours laboratory. This course covers industry-wide security topics, including data communication security, security, infrastructure security, cryptography, access control, authentication, external attack and operational and organization security. This course is designed to prepare the student for the CompTIA Security+ Certification Exam.
CNET 56B INTRUSION DETECTION, AWARENESS, ANALYSIS & PREVENTION
Advisory: CNET 54A, 56A or equivalent.
Four hours lecture two hours laboratory.
Students will apply network security concepts to the management of enterprise network threats, outages and incident response. Student work in teams to assess risk, identify abnormal occurrences, and propose countermeasures. They will get practice in reporting conclusions and recommendations, creating appropriate security procedures and taking steps to raise security awareness.

CNET 56C NETWORK SECURITY PENETRATION TESTING & ETHICAL HACKING
Advisory: CNET 56A or equivalent. May be taken three times for credit.
Four hours lecture, four hours laboratory, three hours terminal time.
This course covers penetration-testing tools and techniques that ethical hackers and security testers use to protect computer networks. This course provides a structured knowledge base for preparing security professionals to discover vulnerabilities and recommend solutions for tightening network security and protecting data from potential attackers.

CNET 56E WINDOWS XP/2000/2003 SYSTEM SECURITY
Advisory: CNET 54A, 56A, 60A, 60B, 60C, and 60D or equivalent experience.
Two hours lecture, two hours lecture-laboratory, four hours terminal time.
Installing, configuring and maintaining Windows systems from a security standpoint. Understanding system attacks. Implementing and evaluating Windows security tools in the network.

CNET 56F LINUX & UNIX SYSTEM SECURITY
Advisory: CNET 56A, CIS 68A, 68B1, 68C1 and 68C2, or equivalent experience.
Four hours lecture, four hours laboratory.
Installing, configuring and maintaining Linux systems from a security standpoint. Understanding systems attacks. Implementing and evaluating Linux security tools in the network.

CNET 56G THE CERTIFIED INFORMATION SYSTEMS PROFESSIONAL
Advisory: CNET 56A or equivalent.
Four hours lecture, three hours laboratory.
The course covers industry-wide security topics, including data communication security, infrastructure security, cryptography, access control, authentication, external attack and operational and organization security. This course is designed to prepare the student for the CISSP Certification Exam.

CNET 56H MICROSOFT WINDOWS 2003 SERVER
Advisory: CNET 51A or 51H.
Four hours lecture, two hours laboratory.
This course provides students with the knowledge and skills necessary to manage accounts & resources, maintain server resources, monitor server performance & safeguard data in a Microsoft Windows 2003 Server environment. The course provides the information necessary to pass the Microsoft Certification Exam 70-290, Managing and Maintaining a Microsoft Windows Server 2003 Environment.

CNET 56I MICROSOFT WINDOWS 2003 NETWORK SERVICES
Advisory: CNET 51A or 51H and CNET 56A.
Four hours lecture, two hours laboratory.
This course provides students with the knowledge and skills necessary to plan and maintain a Microsoft Windows Server 2003 network infrastructure in workgroup, domain, and multiple domain network environments. The course provides the information necessary to pass the Microsoft Certification Exam 70-293, Planning and Maintaining a Microsoft Windows 2003 Network Infrastructure.

CNET 56J MICROSOFT WINDOWS 2003 NETWORK INFRASTRUCTURE
Advisory: CNET 56B.
Four hours lecture, two hours laboratory.
This course provides students with the knowledge and skills necessary to plan and maintain a Microsoft Windows Server 2003 network infrastructure in workgroup, domain, and multiple domain network environments. The course provides the information necessary to pass the Microsoft Certification Exam 70-293, Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure.

CNET 56K MICROSOFT WINDOWS 2003 ACTIVE DIRECTORY
Advisory: CNET 56C.
Four hours lecture, two hours laboratory.
This course provides students with the knowledge and skills necessary to successfully plan, implement, and troubleshoot a Microsoft Server 2003 Active Directory service infrastructure. The course provides the information necessary to pass the Microsoft Certification Exam 70-294, Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure.

CNET 56L MICROSOFT WINDOWS 2003 NETWORK DESIGN
Advisory: CNET 60D.
Four hours lecture, two hours laboratory.
This course provides students with the knowledge and skills necessary to design and implement a Microsoft Windows Server 2003 network infrastructure and Active Directory service in domain, tree, and forest network environments. The course provides the information necessary to pass the Microsoft Certification Exam 70-297, Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.

CNET 56M MICROSOFT WINDOWS 2003 EXCHANGE SERVER
Advisory: CNET 60E.
Four hours lecture, two hours laboratory.
This course provides students with the knowledge and skills necessary to install, configure, administer, and support Microsoft Exchange Server 2003. The course provides the information necessary to pass the Microsoft Certification Exam 70-284, Implementing and Managing Microsoft Exchange Server 2003.

CNET 56N SUPPORTING USERS & TROUBLESHOOTING AN MS WINDOWS XP OPERATING SYSTEM
Advisory: CNET 51H or equivalent.
Four hours lecture, three hours laboratory.
This course is to provide individuals who are new to supporting Microsoft Windows XP with the knowledge and skills necessary to troubleshoot basic problems and 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. The course helps prepare the student for the Microsoft Certification Exam 70-271, Supporting Users and Troubleshooting a Microsoft Windows XP Operating System.

CNET 56O SUPPORTING USERS & TROUBLESHOOTING DESKTOP APPLICATIONS ON AN MS WINDOWS XP OPERATING SYSTEM
Advisory: CNET 51H or equivalent.
Four hours lecture, three hours laboratory.
This course is to provide individuals who are new to supporting Microsoft Windows XP with the knowledge and skills necessary to troubleshoot basic problems and users will face while running applications with 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 Microsoft Desktop Application concepts and how to troubleshoot those applications in a Windows XP environment. The course helps prepare the student for the Microsoft Certification Exam 70-272, Supporting Users Running Applications on Microsoft Windows XP.

CNET 56P WINDOWS SCRIPTING FOR SYSTEM ADMINISTRATORS
Advisory: CNET 56A and CNET 60D.
May be taken three times for credit.
Four hours of lecture, four hours terminal time.
This course provides students with the knowledge and skills necessary to write and maintain scripts to automate all aspects of system administration for computers running the Microsoft Windows operating system. It covers scripting languages (the syntax necessary to write a script), scripting libraries (collections of pre-existing functions which scripts can take advantage of to perform complex tasks) and the interfaces built into the Windows operating system (e.g. Windows Management Instrumentation - WMI and Active Directory Services Interfaces - ADSI) which scripts must call in order to manipulate the operating system. This course has been designed for system administrators and does not require an extensive background in programming.
CNET 60K POWER SHELL SCRIPTING 5 Units
Advisories: CNET 60A, CNET 60C, CNET 60J.
May be repeated three times for credit.
Four hours lecture, four hours laboratory.
This course provides students with the knowledge and skills necessary to write and maintain Powershell scripts to automate all aspects of system administration for computers running the Microsoft Windows operating system. In addition to basic Powershell concepts such as Commandlets, Scripts, and Pipelining, this course covers the interfaces built into the Windows operating system (e.g., Windows Management Instrumentation - WMI and Active Directory Services Interfaces - ADSI) which scripts must call in order to manipulate the operating system. This course has been designed for system administrators and does not require an extensive background in programming.

CNET 80B SELECTED TOPICS IN NETWORK TECHNOLOGY 5 Units
May be repeated four times for credit.
Four hours lecture, four hours laboratory.
Introduction to various network operating systems and network technologies as they emerge.

CNET 80B SELECTED TOPICS IN NETWORK TECHNOLOGY 4 Units
Advisory: CNET 54A, 56A, 54M, 54N, 60A or equivalent depending on the topics covered.
May be repeated four times for credit.
Three hours lecture, four hours laboratory.
Introduction to various network operating systems and network technologies as they emerge.

CNET 93U COMPUTER NETWORKING & ELECTRONICS 3 Units
CNET 93V EXPERIENTIAL INTERNSHIP 4 Units
CNET 93W 6 Units
Three hours laboratory for each unit of credit.
Off-campus supervised experiential education of CNET students in network administration, network security or IT maintenance. Opportunity for practical application of knowledge, skills and abilities acquired in CNET and related course work. Exposure to varied protocols, methodologies and practices in a professional working environment.

CNET 95A CABLE INSTALLATION & TERMINATION 2 Units
Advisory: CNET 50.
One hour lecture, three hours laboratory.
Methods and materials used in the installation and termination of network wiring topologies.

CNET 97A A PRACTICUM IN ENTERPRISE SECURITY 7 Units
Advisory: CNET 56A, 54A.
Four hours lecture, nine hours laboratory.
This course is designed to provide students with classroom and laboratory experience in current and emerging enterprise security technology and issues. Students work in teams to resolve authentic enterprise security tasks, reflect on outcomes, and create security policies and procedures.

CNET 99 COMPUTER NETWORKING & ELECTRONICS PROJECT 2 Units
Advisory: MATH 101.
One hour lecture, three hours laboratory.
Electronic project construct, test, documentation and reporting contracted with an instructor.

CNET 116B WINDOWS INSTALLATION, UPGRADING & TRoubleshooting (A+ PREP) 5 Units
Advisory: CNET 116A.
Four hours lecture, four hours laboratory.
Review of PC hardware and hardware troubleshooting. Detailed study of installing, upgrading and troubleshooting Windows O/S, in order to pass the A+ certification examinations. Troubleshooting techniques leading to the identification and solution of hardware or software problems. Replacement of system components or peripheral devices.

CNET 118 OTI: WORK SKILLS IN A TECHNICAL SUPPORT ROLE 4 Units
Advisory: Familiarity with microcomputers, Windows 2000 Professional and Windows 2000 server set up. CIS 51A, ENGL 110 and ENGL 100, or ESL 25 or equivalent.
Four hours lecture, two hours laboratory.
Basic theory and application of technical support including customer interaction, tools, root cause analysis and problem solving.

CNET 119 CUSTOMER SERVICE FOR IT PROFESSIONALS 4 Units
Advisory: MATH 101, ENGL 110 or ESL 25, CIS 50A, CNET 51A, 111 or equivalent.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
An overview of the knowledge, skills, and abilities necessary for employment in the user support industry. Includes lectures, discussions, case studies, practical exams, and team projects. Topics covered include professional conduct in a customer service environment, problem-solving, communication skills, effective presentations, customer management, and technical considerations. Standard business computer applications such as MS Office will be used in the composition of business letters, memos, e-mails, forms and business presentations. Common customer, asset, and service management software will be explored.
CNET 190  DIRECTED STUDY  .5 Unit
CNET 190X  1 Unit
CNET 190Y  1.5 Units
CNET 190Z  2 Units
Advisory: Pass/No Pass.
Any combination of CNET 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.
One-half hour lecture, one and one-half hour laboratory for each unit of credit.
Computer projects for students who desire or require additional help in attaining comprehension and competency in learning skills.

COMPUTERS & SOFTWARE TRAINING
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CAST 50  CAREER EXPLORATION USING THE INTERNET  2 Units
Advisory: Familiarity with general computing and email. Not open to students with credit in CRLP 90. Pass/No Pass.
May be taken three times for credit.
Two hours lecture-laboratory, one hour laboratory.
Exploration of high-tech careers using the resources of the Internet.

CAST 52A  INTRODUCTION TO MACROMEDIA FLASH  5 Units
Advisory: CIS 50A or 50B, or equivalent, and COIN 61 and current Internet technologies (Web browsers, common graphics formats, FTP).
May be taken two times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Introduction to the Macromedia Flash multimedia authoring environment. Hands-on experience developing streaming Web-based multimedia presentations incorporating animation, sound, graphics and interactivity.

CAST 52B  ADVANCED MACROMEDIA FLASH  5 Units
Advisory: CIS 50A or CIS 50B, or equivalent. COIN 61 and current Internet technologies (Web browsers, common graphics formats, FTP).
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Advanced concepts and techniques of Macromedia Flash. Hands-on experience developing interactive Web-based multimedia presentations incorporating ActionScript, sound and graphics. This course is based on knowledge and principles of Macromedia Flash.

CAST 52P  INTERMEDIATE FLASH: PROJECTS  5 Units
Advisory: CAST 52A, CIS 50A or 50B or equivalent.
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
This is a projects-based Flash course teaching intermediate concepts and techniques of Macromedia Flash from a designer perspective. Basic programming skills will be acquired by those students who have no programming background but want to continue to develop Web technologies using Flash. Hands-on experience developing interactive Web-based multimedia presentations incorporating ActionScript, sound, and graphics will be taught. This course is based on knowledge and principles of Macromedia Flash5 or FlashMX and will prepare students to continue with Advanced Flash programming concepts and projects.

CAST 54A  MICROSOFT VISIO  4 Units
Advisory: CIS 50A or 50B or equivalent is strongly recommended.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
This course will provide an introduction to Microsoft Visio, enabling students to produce flow charts, drawings, schematics, and documents used in a variety of technical disciplines. This course is specifically intended to teach the critical concepts and skills of using Visio to produce schematics and drawings for documenting networks, and to process flow charts for designing and documenting software applications for IT and business-related uses. This course is intended for IT Technical staff and business professionals.

CAST 55A  INTRODUCTION TO ADOBE GOLIVE  4 Units
Advisory: CIS 50A, or 50B or equivalent. An understanding of basic HTML concepts and practice is expected.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.
Introductory concepts and methods of Web page and Web site design using Adobe GoLive. Work with text, graphics, tables and hyperlinks. Smooth integration with other Adobe products including Photoshop and Illustrator.

CAST 56A  INTRODUCTION TO FILEMAKER PRO  4 Units
May be taken two times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, and three hours terminal time.
Introduction to using and designing databases on this popular relational, cross-platform database program. Hands-on experience creating databases structures and interfaces.

CAST 56B  INTERMEDIATE FILEMAKER PRO  4 Units
Advisory: Completion of CAST 56A or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Conceptualizing and designing databases on this popular relational, cross-platform database program. Hands-on experience creating databases structures and interfaces, with special attention given to design objectives, relational theory, scripting methods and complex calculations. This course will provide real-world techniques and best practices for developers, and demonstrate how to take advantage of new features in FileMaker. Students will gain a comprehensive understanding of topics through reading course materials, in-depth discussion, example exercises, and hands-on practice via a self-directed project.

CAST 58  USING XML SPY  2.5 Units
Prerequisite: COIN 78.
Advisory: Familiarity with XML DTDs, schema, XPath, XSL, and XSLT.
May be taken three times for credit.
Three hours lecture-laboratory, three hours laboratory.
Originally designed to solve the World Wide Web's compatibility problems. XML (eXtensible Markup Language) promotes the separation of data, presentation, and programming logic, and allows you to define your own elements, and it is platform neutral. XML Spy, a software program by Altova, is an Integrated Development Environment (IDE) for the eXtensible Markup Language. It is the most widely used development tool for XML, including all aspects of XML in one powerful and easy-to-use product. This class is designed to be taught as a workshop in three six hour sessions. This hands-on workshop teaches students how to use XML Spy to create, edit, and debug XML documents including schema files and XSL transformations. Starting with a review of XML fundamentals and mark-up, the course moves quickly from validation of XML documents using DTDs and schemas to presentation and transformation of XML documents using style-sheets (XSL, and XSLT using the XSLT Designer in XML Spy). Validation (DTDs and Schemas) includes demonstration and hands-on exercises using XML Spy Schema Editor and IE plug-in. Workshop participants will learn how use Altova’s xmlspy® 5 to support modeling, editing, debugging and validating any XML technology, including XML Schema, XSL/XSLT, and SOAP, and WSDL as used in Web services, as well as server-side XML and SOAP.

CAST 63A  INTRODUCTION TO COMPUTER-AIDED DRAFTING USING AUTODESK AUTOCAD  4 Units
Advisory: Knowledge of drafting fundamentals.
Three hours lecture, two hours lecture-laboratory.
For students preparing for careers in General Design and Drafting; Architectural Building Design and Engineering; Mechanical Design and Engineering; Civil Design and Engineering; GIS and Mapping; and Visualization and Animation. An introduction to computer graphic systems, equipment and applications using Autodesk software. Special emphasis will be placed on the practical foundation/ background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.
CAST 63B ADVANCED COMPUTER-AIDED DRAFTING USING AUTOCAD SOFTWARE
4 Units
Advisories: CAST 63A or equivalent experience, a working knowledge of parametric solid modeling concepts.
 Completion of interactive multimedia projects, including production, testing, and delivery
Three hours lecture, two hours lecture-laboratory.
For students preparing for careers in General Design and Drafting; Architectural Design and Engineering; Mechanical Design and Engineering; GIS and Mapping; and Visualization and Animation. This course provides the foundation for a hands-on course that covers basic and advanced AutoCAD software used to create, edit, document, and print parts, assemblies. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

CAST 64A INTRODUCTION TO AUTODESK MECHANICAL DESKTOP 2007 SOFTWARE (AUTODESK INVENTOR PROFESSIONAL 11)
4 Units
Advisories: CAST 63A and knowledge of drafting fundamentals.
Completion of interactive multimedia projects, including production, testing, and delivery
Three hours lecture, two hours lecture-laboratory.
For students preparing for careers in General Design and Drafting; Mechanical Design and Engineering. An introduction to computer graphic systems, equipment and applications using Autodesk software. This course includes 3D design used in parametric solid part modeling, assembly modeling, surface modeling and engineering modeling and output of 2D engineering drawings. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

CAST 65A INTRODUCTION TO AUTODESK ARCHITECTURAL DESKTOP SOFTWARE
4 Units
Advisories: CAST 63A and knowledge of drafting fundamentals.
Completion of interactive multimedia projects, including production, testing, and delivery
Three hours lecture, two hours lecture-laboratory.
For students preparing for careers in General Design and Drafting; Architectural Design and Engineering. An introduction to computer graphic systems, equipment and applications using Autodesk software. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

CAST 66A INTRODUCTION TO AUTODESK CIVIL 3D SOFTWARE
4 Units
Advisories: CAST 63A and knowledge of drafting fundamentals.
Completion of interactive multimedia projects, including production, testing, and delivery
Three hours lecture, two hours lecture-laboratory.
For students preparing for careers in General Design and Drafting; Architectural Design and Engineering; and Civil Design and Engineering. An introduction to computer graphic systems, equipment and applications using Autodesk software. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

CAST 70A INTRODUCTION TO ADOBE PREMIERE
4 Units
Advisory: CIS 50A or equivalent; GID 74 or equivalent.
Completion of interactive multimedia projects, including production, testing, and delivery
Three hours lecture, one and one-half hours lecture-laboratory.
Introduction to digital video and the production of multimedia using various software tools and hardware configurations. Hands-on experience with creating and editing digital video and integrating video, sound, animation and graphics into multimedia presentations.

CAST 70B MULTIMEDIA DESIGN & AUTHORING
4 Units
Advisories: CIS 50A or 50B, or equivalent.
Completion of interactive multimedia projects, including production, testing, and delivery
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Introduction to the principles of interface design, conceptualization, and prototyping of multimedia projects with software tools.

CAST 70C INTERACTIVE MULTIMEDIA PROJECT
4 Units
Advisories: CAST 52A, 70B or equivalent.
Completion of interactive multimedia projects, including production, testing, and delivery
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Completion of interactive multimedia projects, including production, testing, and delivery of an original CD-ROM title, kiosk presentation, or interactive multimedia Web site.

CAST 70D 3D MODELING & ANIMATION FOR MULTIMEDIA
4 Units
Advisory: CIS 50A or 50B, or equivalent.
Completion of interactive multimedia projects, including production, testing, and delivery
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Fundamentals of 3D modeling and animation for multimedia. Hands-on experience with modeling, rendering, and animation; and conversion techniques utilizing QuickTime and other technologies.

CAST 70E INTRODUCTION TO DVD AUTHORING
4 Units
Advisory: CIS 50A or 50B, or equivalent; familiarity with digital video, digital audio, common graphics formats.
Completion of interactive multimedia projects, including production, testing, and delivery
Three hours laboratory.
Introduction to DVD authoring environment. Hands-on experience developing DVD-based multimedia presentations incorporating video, animation, sound, graphics and interactivity.

CAST 70G INTRODUCTION TO MACROMEDIA DIRECTOR
5 Units
Formerly: CAST 70B1
Completion of interactive multimedia projects, including production, testing, and delivery
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, four hours laboratory.
Introduction to the Macromedia Director multimedia authoring environment. Hands-on experience developing interactive multimedia presentations incorporating simple animation, sound, graphics and digital video movies. This course is based on knowledge and principles of multimedia design and authoring.

CAST 70H ADVANCED MACROMEDIA DIRECTOR
5 Units
Formerly: CAST 70B2
Completion of interactive multimedia projects, including production, testing, and delivery
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, four hours laboratory.
Advanced concepts and techniques of Macromedia Director and its use in developing interactive multimedia projects. Software capabilities and limitations; hands-on experience. This course is based on knowledge and principles of multimedia authoring utilizing Macromedia Director.

CAST 70J INTRODUCTION TO ADOBE PREMIERE ELEMENTS
3 Units
Completion of interactive multimedia projects, including production, testing, and delivery
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.
Introduction to digital video and the production of multimedia using software that combines ease of use with a powerful editing tool. Hands-on experience includes creating and editing digital video and integrating video, sound, animation and graphics into multimedia presentations. Ideal for professionals and business users as well as hobbyists and home users.

CAST 74G WEB PUBLISHING TOOLS: DREAMWEAVER
3 Units
Advisory: COIN 60; Familiarity with current Internet technologies (e-mail, Web browsers, common graphics formats, FTP). Not open to students with credit in COIN 74.
Completion of interactive multimedia projects, including production, testing, and delivery
May be taken two times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.

CAST 80 SELECTED TOPICS IN SOFTWARE APPLICATIONS
4 Units
Completion of interactive multimedia projects, including production, testing, and delivery
May be taken three times for credit.
Three hours laboratory.
Introduction to various software application technologies as they emerge.
CAST 86A  INTRODUCTION TO ADOBE INDESIGN  4 Units
Advisory: CIS 50A or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Introduction to Adobe InDesign and its use in electronic layout and print media problem solving. Hands-on experience with the basic elements and tools of InDesign.

CAST 86B  ADVANCED ADOBE INDESIGN  4 Units
Advisory: CAST 86A.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Advanced Adobe InDesign is an exploration of the advanced concepts of InDesign in document management, page layout, online and printing applications. Hands-on experience of these concepts.

CAST 89A  INTRODUCTION TO QUARKXPRESS  4 Units
Advisory: CIS 50A or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Introduction to QuarkXPress and its use in electronic layout and print media problem solving. Hands-on experience with the basic elements and tools of QuarkXPress.

CAST 89B  ADVANCED QUARKXPRESS  4 Units
Advisory: CAST 89A or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Advanced concepts and methods of QuarkXPress and its use in electronic layout, print media, and problem solving. Software capabilities and limitations; hands-on experience.

CAST 90A  INTRODUCTION TO ADOBE ILLUSTRATOR  4 Units
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Introduction to Adobe Illustrator, a software drawing tool. Hands-on experience with the basic elements and tools of Adobe Illustrator to produce one-page illustrations.

CAST 90B  ADVANCED ADOBE ILLUSTRATOR  4 Units
Advisory: CAST 90A or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.

CAST 91A  INTRODUCTION TO PAINTER  4 Units
Advisory: CIS 50A or 50B, or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
An introduction to Painter software and its use in image-making and image-editing problem solving; hands-on software experience with the basic elements and tools of Painter.

CAST 91B  ADVANCED PAINTER  4 Units
Advisory: CAST 91A or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Advanced concepts and methods of Painter and its use in image-making, image-editing, and problem solving. Software capabilities and limitations; hands-on experience.

CAST 92A  INTRODUCTION TO ADOBE PHOTOSHOP  4 Units
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Introduction to Adobe Photoshop, an image processing software tool. Hands-on experience with the basic elements and tools to set up files, manage documents, and perform basic image processing.

CAST 92B  ADVANCED ADOBE PHOTOSHOP  4 Units
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Advanced concepts and methods of Adobe Photoshop and its use in developing images and creating special effects and problem solving. Software capabilities and limitations; hands-on experience.

CAST 93A  POWERPOINT: EFFECTIVE PRESENTATIONS  4 Units
Advisory: CIS 50A.
May be taken two times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Advanced concepts and methods of Adobe PowerPoint and its use in developing presentations and creating special effects and problem solving. Software capabilities and limitations; hands-on experience.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAST 104B</td>
<td>MICROSOFT WORD II</td>
<td>3</td>
<td>Advisory: CAST 104A or equivalent. May be taken four times for credit. One and one-half hours lecture, one and one-half hours laboratory. Continuation of MS Word. Hands-on experience with Word and its use in file management, the creation of tables, forms, brochures, and newspaper columns; as well as exporting files into Desktop Publishing Packages.</td>
</tr>
<tr>
<td>CAST 107D</td>
<td>EXCEL: BASICS</td>
<td>3</td>
<td>May be taken four times for credit. One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours laboratory. Hands-on introduction to Excel and its use in creating worksheets, graphs, databases and macros across various microcomputer platforms.</td>
</tr>
<tr>
<td>CAST 109F</td>
<td>USING ACCESS</td>
<td>3</td>
<td>Advisory: CIS 50A or 50B, or equivalent. One-half hour lecture, one and one-half hours lecture-laboratory, one and one-half hours laboratory. Introduction to Microsoft Access, a relational database management software tool.</td>
</tr>
<tr>
<td>CAST 190</td>
<td>DIRECTED STUDY</td>
<td>.5</td>
<td>One hour lecture. Introduction to MS Office and its use in problem solving. Office capabilities and limitations; hands-on experience with the Office interface, Word, Excel and PowerPoint.</td>
</tr>
<tr>
<td>CAST 190X</td>
<td></td>
<td>1</td>
<td>One hour lecture. Introduction to MS Windows and its use in problem solving. Windows graphical user interface capabilities and limitations; hands-on experience.</td>
</tr>
<tr>
<td>CAST 190Y</td>
<td></td>
<td>1.5</td>
<td>Non-degree applicable credit course. One hour lecture. Introduction to MS Office and its use in problem solving. Office capabilities and limitations; hands-on experience with the Office interface, Word, Excel and PowerPoint.</td>
</tr>
<tr>
<td>CAST 190Z</td>
<td></td>
<td>2</td>
<td>Non-degree applicable credit course. One hour lecture. Introduction to MS Office and its use in problem solving. Office capabilities and limitations; hands-on experience with the Office interface, Word, Excel and PowerPoint.</td>
</tr>
<tr>
<td>CAST 200A</td>
<td>INTRODUCTION TO MICROSOFT OFFICE</td>
<td>1</td>
<td>Non-degree applicable credit course. One hour lecture. Introduction to MS Office and its use in problem solving. Office capabilities and limitations; hands-on experience with the Office interface, Word, Excel and PowerPoint.</td>
</tr>
<tr>
<td>CAST 200B</td>
<td>MICROSOFT WORD BASICS</td>
<td>1</td>
<td>Non-degree applicable credit course. One hour lecture. Introduction to MS Windows and its use in problem solving. Windows graphical user interface capabilities and limitations; hands-on experience.</td>
</tr>
<tr>
<td>CAST 203A</td>
<td>MICROSOFT WINDOWS BASICS</td>
<td>1</td>
<td>Non-degree applicable credit course. One hour lecture. Introduction to MS Office and its use in problem solving. Office capabilities and limitations; hands-on experience with the Office interface, Word, Excel and PowerPoint.</td>
</tr>
<tr>
<td>CAST 204A</td>
<td>MICROSOFT WORD BASICS</td>
<td>1</td>
<td>Non-degree applicable credit course. One hour lecture. Introduction to MS Office and its use in problem solving. Office capabilities and limitations; hands-on experience with the Office interface, Word, Excel and PowerPoint.</td>
</tr>
<tr>
<td>CAST 206A</td>
<td>PC CONSTRUCTION &amp; OPERATION</td>
<td>1</td>
<td>Non-degree applicable credit course. Advisory: Not open to students with credit in PCS 111. One hour lecture. Learn how to assemble and maintain your own PC-compatible computer; hands-on experience. Intended for continuing education.</td>
</tr>
<tr>
<td>CAST 207A</td>
<td>PC HARD DISK MANAGEMENT</td>
<td>1</td>
<td>Non-degree applicable credit course. Advisory: Not open to students with credit in CAST 102C. One hour lecture. Learn how to manage your hard drive effectively; hands-on experience. Intended for continuing education.</td>
</tr>
<tr>
<td>CAST 221</td>
<td>OVERVIEW OF ADOBE PHOTOSHOP</td>
<td>1</td>
<td>Non-degree applicable credit course. Advisory: CAST 200B or equivalent. Not open to students with credit in CAST 92A. One hour lecture. Hands-on experience with the basic elements and tools of Photoshop to set up files, manage documents, and perform basic image processing. Intended for continuing education.</td>
</tr>
<tr>
<td>CAST 222A</td>
<td>INTRODUCTION TO PRESENTATION SOFTWARE: POWERPOINT</td>
<td>1</td>
<td>Non-degree applicable credit course. One hour lecture. Introduction to presentation software using Microsoft PowerPoint hands-on experience to produce text, graphic, chart and graph images for professional presentations.</td>
</tr>
<tr>
<td>CAST 230L</td>
<td>OVERVIEW OF MULTIMEDIA</td>
<td>.5</td>
<td>Non-degree applicable credit course. One-half hour lecture. Introduction to the various components of multimedia and the production process, and various software tools and hardware systems. Hands-on experience with software to integrate text, graphics, animation, sound and movies.</td>
</tr>
<tr>
<td>CAST 240A</td>
<td>MICROSOFT ACCESS BASICS</td>
<td>1</td>
<td>Non-degree applicable credit course. Advisory: Not open to students with credit in CAST 109F. One hour lecture. Introduction to Access, a relational database tool; hands-on experience. Intended for continuing education.</td>
</tr>
<tr>
<td>CAST 240B</td>
<td>MICROSOFT ACCESS II</td>
<td>1</td>
<td>Non-degree applicable credit course. Advisory: Not open to students with credit in CAST 109F. One hour lecture. Introduction to Access, a relational database tool; hands-on experience. Intended for continuing education.</td>
</tr>
<tr>
<td>CAST 241A</td>
<td>MICROSOFT EXCEL: WORKSHEETS</td>
<td>1</td>
<td>Non-degree applicable credit course. Advisory: Not open to students with credit in CAST 107A. One hour lecture. Introduction to basic worksheet concepts and commands of Excel, including creation and modification of worksheets, use of simple formulas and development of basic charts. Intended for continuing education.</td>
</tr>
<tr>
<td>CAST 242A</td>
<td>MICROSOFT EXCEL: DATABASES</td>
<td>1</td>
<td>Non-degree applicable credit course. Advisory: Not open to students with credit in CAST 107B. One hour lecture. Introduction to basic database concepts and commands of Excel, including the creation, sorting, and searching of databases. Intended for continuing education.</td>
</tr>
<tr>
<td>CAST 243A</td>
<td>MICROSOFT EXCEL: CHARTS &amp; MACROS</td>
<td>1</td>
<td>Non-degree applicable credit course. Advisory: Not open to students with credit in CAST 107C. One hour lecture. Introduction to graph and macro concepts and commands of Excel, including the creation and customizing of various charts and macros. Intended for continuing education.</td>
</tr>
<tr>
<td>CAST 250</td>
<td>FUNDAMENTALS OF PC NETWORKING</td>
<td>1</td>
<td>Non-degree applicable credit course. One hour lecture. Introduction to the concepts underlying networking IBM PCs, DOS, and Windows-based computers. Intended for continuing education.</td>
</tr>
</tbody>
</table>
computers on the internet

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coin 51  internet technology & applications: introduction  5 units
advisory: cis 50a or equivalent, or familiarity with unix.
may be taken three times for credit.
four hours lecture, four hours laboratory.
using the internet to connect and communicate over the world wide web and e-mail, retrieve current useful information using searching tools, prepare a simple html web page, locate internet resources to find software and answers to troubleshooting problems and use evolving internet technologies and resources.

coin 53  introduction to online learning  2 units
advisory: familiarity with an internet browser and e-mail. pass/no pass.
one hour lecture, two hours laboratory.
this course covers concepts, tools and techniques for success in on-line learning. through self-assessment, online interaction, and use of the various tools and resources of the internet the student will develop an understanding of the skills needed to be successful when engaging in online instruction.

coin 53a  introduction to etudes  2 units
may be taken three times for credit.
two hours lecture.
this online course offers an overview of the core tools and basic functionality of etudes—a collaboration, teaching, and learning environment. etudes offer a complete set of tools to help instructors develop, deliver, supplement, and manage courses over the internet. a hands-on learning experience, this course takes participants through a step-by-step process to learn best uses of the core tools. participants prepare the support teaching and learning. participants read tutorials, participate in discussions, and apply the skills taught in a practice site. additionally, they share best practices and reflect on good uses of the tools.

coin 56  e-business  5 units
advisory: cis 50a, 50b or equivalent; coin 61 or equivalent. familiarity with internet commerce and e-business; internet connectivity.
may be taken three times for credit.
four hours lecture, three hours laboratory.
foundations and principles of electronic commerce and doing business on the internet. topics include business models, value and supply chains, business strategy, electronic data interchange (edi), electronic payments & digital currency, integrating channels of business (walk-in, mail, phone, internet), e-marketing, intranets and extranets, security risks and legal issues in e-commerce, and electronic document management systems (edms). current topics about latest e-business trends will be discussed, including peer-to-peer commerce, public and private exchanges, e-hubs and e-markets, technology trends in enterprise computing including web services and knowledge management, and global e-commerce and development considerations.

coin 58  electronic commerce projects  5 units
advisory: coin 51 and 56, or equivalent, and familiarity with internet commerce and business models strongly recommended. requires internet connectivity.
may be taken three times for credit.
three hours lecture, six hours laboratory.
principles and methods of setting up a functional electronic commerce site on the world wide web. upon completion of a class project estimated to take 40 to 60 hours to complete, students will be able to select software and commerce service providers for creating a web site with searchable inventory and capable of processing orders and accepting payment, and will create a functional web store business plan for designing, building, launching, and marketing a www commerce site.

coin 61  publishing on the web using html/xhtml  5 units
advisory: cis 50a or equivalent & coin 51.
may be taken three times for credit.
four hours lecture, four hours laboratory.
introduction to electronic publishing on the web using html and xhtml. students will produce a multi-page web site with image, text, and links; tables, frames, forms and simple multimedia. uploading and modifying documents to a web server, interacting with a client, and planning, designing, testing and maintaining a web site will also be emphasized. this course is based on knowledge of navigating the internet and browsing the web.

coin 63  advanced topics in web publishing  5 units
advisory: cis 50a, coin 51 or equivalent, and coin 61.
may be taken three times for credit.
four hours lecture, four hours laboratory.
exploration of advanced technologies in web publishing which work with hypertext mark-up language (html) and electronic publishing on the web. hands-on experience in producing a multi-page web site using technologies such as cascading style sheets, multimedia, dynamic html, xml, cgi, javascript and other relevant technologies; uploading and modifying web documents to a web server; interacting with a client; planning, designing, testing and maintaining a web site. this course is based on knowledge of navigating the internet and browsing the web, and prior experience coding in basic html.

coin 65  using cascading style sheets for design  5 units
advisory: coin 61, 63 strongly recommended.
may be taken twice for credit.
four hours lecture, four hours laboratory.
cascading style sheets (css) have changed the focus of web development from presentation to structure. this class will discuss separating web content from formatting so that the resulting markup will render more quickly and, through the use of css, be presented in a variety of user agents. the class is designed for students who intend to pursue a web development career or for those who want a more advanced understanding of web site creation to enhance their own work or career path. basic concepts include html markup, methods of styling a document, css syntax, fonts and text, positioning elements, basic and advanced page layout and interface components.

coin 66  apache web server management  5 units
advisory: coin 70a and cis 66a or equivalent strongly recommended.
familiarity with the concept of web servers, http, browsers, protocols, scripting, basic and other internet-related subjects.
may be taken two times for credit.
four hours lecture, three hours laboratory.
practices and procedures in the installation, operation, maintenance, and security of a world wide web server.

coin 68  cgi scripting using perl  5 units
advisory: cis 68a, 68e, coin 61; cis 15a or 25a or equivalent.
may be taken three times for credit.
four hours lecture, three hours laboratory.
introduction to cgi scripting using the perl programming language. a brief review of perl followed by an introduction to cgi, web server concepts, and various techniques to create professional web sites with database interactivity. prior programming experience in perl is assumed.

coin 70a  introduction to programming using javascript  5 units
advisory: coin 63.
may be taken three times for credit.
four hours lecture, four hours laboratory.
an introduction to computer programming using the javascript language. students will receive a strong foundation of understanding and practice with basic programming concepts including problem solving strategies and syntax including data types, variables, functions, events, control structures, arrays, strings, dates and math and basic form validation. the class is designed for students who intend to pursue careers in web programming or web administration or those who want a basic understanding of programming to enhance other web-related career paths. no prior programming experience is required or expected.
COIN 70B USING JAVASCRIPT 5 Units
Advisory: COIN 63 and 70A or prior experience with an object oriented programming language (C/C++/JAVA).
May be taken three times for credit.
Four hours lecture, four hours laboratory.
Using Javascipt to create interactive web sites by taking advantage of the Document Object Model (DOM), dynamic creation of content, advanced forms processing, window/frame manipulation, cookies, shopping carts, browser detection and other related elements. This class is designed for students who have intermediate-level knowledge of an object-oriented programming language.

COIN 71 APPLICATION SOFTWARE DEVELOPMENT WITH AJAX 5 Units
Advisories: COIN 61, COIN 70A or COIN 70B, and COIN 78.
May be taken two times for credit.
Four hours lecture, four hours laboratory.
JavaScript and XML are used to create highly interactive Web sites that function like desktop applications. You will learn to write advanced JavaScript programs that request XML from the server “on the fly”, and you will learn to use an existing framework to implement a complex design. Software engineering principles will be stressed, including separating the content from the presentation, programming style and documentation.

COIN 72 WEB MARKETING 4 Units
Advisory: COIN 50A or equivalent; COIN 51, 56, and 61 or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Marketing concepts and theories on how to market and advertise your Web site effectively on the Internet. Classroom critiques of your site, fine tuning to compete with successful online business models.

COIN 74 WEB PUBLISHING TOOLS: DREAMWEAVER 5 Units
Advisory: COIN 61 or equivalent and familiarity with current Internet technologies (e-mail, Web browsers, common graphics formats, FTP).
May be taken two times for credit.
Four hours lecture, three hours laboratory.
Principles and methods of creating dynamic, “fourth-generation” Web sites using the latest Web technologies: JavaScript, Cascading Style Sheets, Java, audio, video and animation plug-ins. Techniques of authoring Web pages for different browsers and different end user platforms. Principles of designing and maintaining efficient and successful Web sites.

COIN 74A WEB PUBLISHING TOOLS: DREAMWEAVER BASICS 5 Units
Advisory: COIN 50A, COIN 51, 61 strongly recommended.
May be taken twice for credit.
Two hours lecture, two hours lecture/laboratory, three hours laboratory.
An introduction to the Dreamweaver environment including principals and methods of planning, designing and creating successful Web sites. The class is designed for students who intend to pursue a Web development career or for those who want a basic understanding of Web site creation to enhance their own work or career path. Basic concepts include creating a basic Web site, remote site access (FTP), text formatting and manipulation, linking, cascading style sheets, graphics (including image maps, rollovers and navigation bars), tables and layout, layers, frames and site marketing using metadata. Techniques of authoring, maintaining and testing for different users, browsers and platforms will be discussed.

COIN 74B WEB PUBLISHING TOOLS: DREAMWEAVER INTERACTIVE 5 Units
Advisory: CIS 50A, 50B, COIN 51, 56, 74A strongly advised. COIN 70B or an understanding of a programming language.
May be taken twice for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
A more in-depth look at the Dreamweaver environment including principals and methods of planning and creating successful interactive Web sites. The class is designed for students who intend to pursue a Web development career or for those who want a more in-depth understanding of the more advanced features of Dreamweaver to enhance their own work or career path. Advanced interactive concepts include client interactions, thorough understanding of the use and issues involved with cascading style sheets, collaborative development, table layout, interactive forms, layers, Dreamweaver behaviors, rich media additions, reusable assets and site marketing. Advanced XHTML and XML practice including RSS feeds, Google XML site maps, and creating and editing XML documents is also reviewed. Techniques of authoring, maintaining and testing for different users, browsers and platforms will be emphasized. A good working knowledge of Dreamweaver 8 and Studio 8 is expected.

COIN 74C WEB PUBLISHING TOOLS: DREAMWEAVER INTERACTIVE II 5 Units
Advisory: COIN 61, COIN 74A and COIN 74B strongly recommended.
May be taken twice for credit.
Two hours lecture, two hours lecture/laboratory, three hours laboratory.
An advanced exploration of the Dreamweaver environment, and database integration. The class is designed for students who intend to pursue a Web development career and for those who want an in-depth understanding of Web site creation to enhance their work or career path. Concepts investigated include adding interactivity through the use of media objects, database functionality and dynamic pages techniques of authoring, maintaining and testing for different users, accessibility and browsers and platforms will be discussed.

COIN 75 WEB PUBLISHING TOOLS: MULTIMEDIA 5 Units
Advisory: COIN 61 or equivalent, and ability to program in Java or JavaScript.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
Fundamentals of a variety of multimedia publishing tools which may include Flash, Photoshop/Elements, Adobe Acrobat, sound and/or video digitizing software and video editing and processing software. Hands-on experience in producing Web pages which utilize these technologies. This course is based on knowledge of the Internet, HTML, and Web publishing.

COIN 76 EXTENSIBLE MARKUP LANGUAGE (XML) 5 Units
Advisory: COIN 61 or equivalent, and ability to program in Java or JavaScript.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
Introduction to eXtensible Markup Language (XML) and document structuring. Hands-on experience with XML documents, Document Type Definition (DTD), data parsing with Document Object Model (DOM) and data presentation with eXtensible Style Language (XSL) and Cascading Style Sheets (CSS). Survey of recommended XML documents including XHTML, and a brief introduction to RSS, RDF, and XML sitemaps.

COIN 78 INTERNET PROGRAMMING WITH XML 5 Units
Advisory: COIN 78, and familiarity with the JAVA programming language, SQL and XML.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
Advanced topics in Internet programming focusing on the use and integration of XML, Java, and database technologies for Web application development. This course is intended for students in the Internet programming discipline and professionals who need to develop hands on programming skills specifically for integrating XML with databases, Java, and development of web services, including the use of SOAP, Net, and UDDI. This is an advanced course that will cover the most current topics and technologies utilizing XML, with topical focus including B2B (Business to Business integration) and web services. Topics will include an overview of the most current application architecture frameworks and standard used by industry, including implementations in NT, Unix, and Linux environments and vendor strategies.
COIN 78C XML FOR INFORMATICS 5 Units
Advisory: COIN 78.
May be taken three times for credit.
Three hours lecture, one hour lecture-laboratory, four hours laboratory.
The World Wide Web is transitioning from a content Web, to a process Web, to a knowledge Web. This course introduces the Semantic Web and Semantic Web technologies to students with a firm command of XML and an interest in knowledge engineering. Topics include RSS, RDF, RDDL, Ontologies and Taxonomies, Concept Maps, and XML topic maps. Students will integrate an RSS feed into a blog, build a machine readable XML meta data document, and create a small XML topic map from an ontology, taxonomy, and concept map. This course provides a firm understanding of the Semantic Web initiative, including current activities in RKF (Rapid Knowledge Formation), DAML, and Web based inference and ontology engines.

COIN 78D USER INTERFACE DESIGN WITH EXPRESSION BLEND 5 Units
Advisory: CIS 19M, COIN 78.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
Expression Blend is a new tool from Microsoft for designing both Windows and Web user interfaces using XML, an XML derivative. Blend seamlessly permits the incorporation of audio, video, 2D and 3D vector art, bitmap images and animations into stunning user interfaces. Through data binding and other markup extensions, XML permits the implementation of a considerable degree of functionality without requiring a full fledged programming language such as C#. At the same time, Blend is able to totally coordinate with Visual Studio so that the same project can be worked on simultaneously by a designer using Blend and by a C# developer using Visual Studio. Blend will ultimately be used both by professional user interface designers and by developers for most WPF (Windows Presentation Foundation) UIs since its feature set for design purposes is considerably richer than the equivalent designer in Visual Studio.

COIN 79 XML FOR BIOINFORMATICS 5 Units
Advisory: COIN 51 or equivalent. BTEC 51A and 52A.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
Introduction to mark-up languages, including HTML and XML, as a method of gaining practical experience and learning the fundamentals of BIOML (BioPolymer Markup Language). This course is intended for students in the bioinformatics discipline who need to understand mark-up languages for encapsulating, transmitting, and presenting biological data on the World Wide Web, with special emphasis placed on interaction and collaboration with bioinformatics databases, and rendering biopolymer data with BIOML.

COIN 80 SELECTED TOPICS IN INTERNET TECHNOLOGY 4 Units
Advisory: COIN 63.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Introduction to various Internet technologies and Web development tools.

COIN 81 INTRODUCTION TO BIOINFORMATICS TOOLS & DATABASES 5 Units
Prerequisites: COIN 51 or equivalent. BTEC 51A and 52A.
May be taken three times for credit.
Four hours lecture, Three Hours Laboratory.
This practical course provides an introduction to Internet databases, tools and methods used in bioinformatics, emphasizing genomic and protein databases including NCBI, GenBank, SWISS-PROT, SWISS-MODEL, PDB, PIR, and Pfam. Course focus is on the practical use of bioinformatics tools and databases to explore the genome, proteome, and transcriptome in applied problem spaces. The use of BioPERL modules is introduced a method to interrogate bioinformatics data. XML data formats including BSML and MAGE-ML are demonstrated. Lab exercises focus on software tools including BLAST and Smith-Waterman for methods of aligning and comparing sequences, and SWISS-MODEL and The Protein Data Bank for protein structure modeling. Statistical analysis of bioinformatics includes hypothesis testing and problem posing. Current topics including microarray technology for measuring gene expression are also introduced. A working knowledge of both key concepts and vocabulary used in molecular biology is strongly encouraged.

COIN 82 IMAGES FOR THE WEB 4 Units
Advisory: CAST 92A or equivalent.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
Image preparation and design for the Web using Photoshop and other tools. Image acquisition and correction, conversion and optimizing images for the Web with application to various browsers. Software capabilities and limitations; hands-on experience.

COIN 83 SPECIAL WEB PROJECTS 5 Units
Advisory: CIS 50A, 50B, COIN 51, 61, 63.
Four hours lecture, four hours laboratory.
Students will create a fully functioning Web site, based on techniques learned in previously taken CAST/COIN classes. Technologies used may include XHTML, CSS, JavaScript, graphics or multimedia development, DHTML, CGI or other relevant technologies.

COIN 85 SERVER-SIDE PROGRAMMING WITH JAVASERVER PAGES (JSP) 5 Units
Advisory: CIS 27A and COIN 61 or equivalent, COIN 78, and the ability to write simple SQL statements highly recommended. Requires Internet connectivity. May be taken three times for credit.
Four hours lecture, four hours laboratory.
Concepts and techniques used for creating dynamic Web sites with JSP as the primary programming language. Topics include Server-side Web site programming for creating dynamic and distributed Web sites; Java Servlets and its relation to JSP; customized tag creation for improved code design; XML integration for content management and business-to-business (B2B) content and data exchange over the Internet; Java Beans utilization and database connectivity with JDBC; and a survey of various required JSP environments like Jserv and Jrun, and overview of their installation and configuration.

COIN 86 USING UML FOR WEB APPLICATION DEVELOPMENT 4 Units
Advisory: Object oriented programming course (Java recommended), hands-on use of Microsoft Visio, and CIS 60 or equivalent.
May be taken three times for credit.
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours laboratory.
This course will provide a basic understanding of visual modeling tools and methods for software application development, focusing on the Unified Modeling Language (UML), Microsoft Visio, Visual Studio, and/or specific industry applications (Rational Rose) will be used to model Web-deployed software applications. Special emphasis will be placed on understanding business process requirements gathering and effective modeling techniques using the UML.

COIN 87 INTRODUCTION TO DATABASE-DRIVEN WEB SITES 5 Units
Advisory: COIN 61 or equivalent, and some database experience (e.g. CIS 52A). A working vocabulary of Unix, Linux, and Web server technologies is extremely useful but not required.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
Introduction to the principles of database-driven, dynamic Web sites. Emphasis on both the business and technical requirements and solutions for web-database integration. Introduces and compares the most popular tools currently used for constructing database-driven Web sites, from the simplest to the most powerful, including: File maker, MSAccess, Dreamweaver MX, ASP.NET, PHP, and JSP. Web services, and an overview of the industry and business drivers pushing Web database integration are covered.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
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COIN 92 DATABASE-DRIVEN WEB SITES: STEP BY STEP 5 Units
Prerequisites: CIS 52A, COIN 63, 70 and 91.
Advisory: Some background in a programming language such as Visual Basic, JAVA, or PERL.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
An indepth introduction to the practical methods for constructing and deploying database driven, dynamic Web sites. Review of the overall architecture and essential components of database enabled Web site applications: HTML forms and tables, client side scripting languages, Web servers, server side scripting languages, and database servers. Comparison of the most popular Web Server toolsets available for web-database integration, including: Microsoft VB.NET and ASP.NET, Open source PHP and MySQL, JAVA and JSP, and Dreamweaver MX. Lectures are augmented by a series of structured lab exercises to provide students with a hands-on exposure several popular web database integration toolsets.

COIN 93U COIN EXPERIENTIAL INTERNSHIP 3 Units
May be taken six times for credit.
Nine hours laboratory, three hours laboratory for each unit of credit.
Off-campus supervised experiential education of COIN students in Web site creation, E-business, or Web site maintenance. Opportunity for practical application of knowledge, skills and abilities acquired in COIN and related course work. Exposure to varied protocols, methodologies and practices in a professional working environment.

COIN 93V COIN EXPERIENTIAL INTERNSHIP 4 Units
May be taken six times for credit.

COIN 93W COIN EXPERIENTIAL INTERNSHIP 6 Units
May be taken six times for credit.

COIN 94 CONSTRUCTING DATA-DRIVEN WEB SITES WITH PHP & MYSQL 5 Units
Prerequisite: COIN 92.
Advisory: Familiarity with the JavaScript programming language. Understanding of HTML and a programming language such as Visual Basic, JAVA, or PERL.
A working knowledge of the Linux operating system is helpful
May be taken three times for credit.
Four hours lecture, four hours laboratory.
A comprehensive introduction to Open Source web database integration tools which presents a systematic approach to the design, construction, and deployment of dynamic Web sites using the popular Open Source tools PHP and MySQL. Emphasis is on the practical considerations and skills required to develop fully functional database enabled Web sites in a Windows or Linux OS environment. Students will gain hands on skills for Web programming using PHP, Hypertext Preprocessor, and the MySQL database, formatting and publishing database information residing in the MySQL server and other relational database sources. PHP and MySQL topics will focus on key aspects of dynamically publishing catalog information from a database for electronic commerce – including catalog browsing and querying, shopping carts, session management, customer management, and security.

COIN 96 CONSTRUCTING DATA-DRIVEN WEB SITES WITH ASP.NET 5 Units
Prerequisite: CIS 12A, COIN 66 and 94.
Advisory: Familiarity with the JavaScript programming language; good understanding of HTML as well as IIS web server technology.
May be taken three times for credit.
Four hours lecture, four hours laboratory.
A comprehensive introduction to .NET Web database integration tools which presents a systematic approach to the design the construction and deployment of dynamic Web sites using Microsoft’s powerful ASP.NET environment. Emphasis is on the practical considerations and skills required to develop fully functional database enabled Web sites in a Windows .NET environment. Students will gain hands on skills for Web database programming using Visual Studio .Net, VB .NET, IIS, ASP .NET, and MSAccess , SQL Server 2000, or MySQL. Lecture and lab topics will focus on key aspects of dynamically publishing catalog information from a database for electronic commerce – including catalog browsing and querying, shopping carts, session management, customer management, and security.

COIN 109 SELECTED BUSINESS TOPICS FOR THE WEB ADMINISTRATOR 6 Units
Advisory: COIN 56, 66 or equivalent.
May be taken two times for credit.
Six hours lecture.
Introduction to business and legal issues tailored for the Web administrator. Series of lectures by experts on topics, including Internet Security, Web-related legal issues, people skills, management and finance. Provides wide-ranging understanding of the various non-technical aspects of Internet administration.

COIN 117 COIN INTERNSHIP .5 Unit
May be taken six times for credit.
One-and-one-half hours laboratory for each unit of credit.
Actual work experience in a business, commercial or industrial facility.

COIN 209 NAVIGATING THE INTERNET 1 Unit
Advisory: Not open to students with credit in COIN 50. Familiarity with PC or Mac recommended.
May be taken three times for credit.
One hour lecture.
How to use the Internet from home or office. Hands-on experience with email, Gopher, Mosaic, File Transfer Protocol (FTP), and news groups. Intended for continuing education.

COIN 210L WORLD WIDE WEB PAGE DESIGN .5 Unit
May be taken three times for credit.
One-half hour lecture.
Elementary design and creation of World Wide Web pages. Hands-on experience creating Web pages.

COIN 211A USING DIGITAL IMAGES 1 Unit
Advisories: Not open to students with credit for LINC 257.
May be taken three times for credit.
One hour lecture.
Use your digital images for fun and profit! Learn how to create hard or soft cover books, calendars, note cards and more to make great gifts or remembrances. Create collateral materials for use in projects or presentations. Easy quick and fun!

COIN 212 BLOGGING, SYNDICATION & PODCASTING 1 Unit
Advisories: Not open to student with credit in LINC 283.
May be taken three times for credit.
One hour lecture.
Blogs, RSS, and podcasting have all received a lot of publicity in the popular press recently. Like many emerging technologies, the expectations are that everyone is just supposed to know all about them, even without training or learning opportunities. This class will explain, demonstrate and provide hands-on experience with each of these technologies. At the end of the class, participants will have their own Web blog and first-hand knowledge and understanding of the power of syndication when used to gather and disseminate knowledge and information. Using sound-editing software, students will also create their own podcast and upload it to the web (iPod not necessary).

COOPERATIVE WORK EXPERIENCE EDUCATION

Cooperative Education Division
(650) 949-7232
www.foothill.edu/coop/

CWE 51 OCCUPATIONAL WORK 1 Unit
CWE 51X EXPERIENCE: PARALLEL 2 Units
CWE 51Y 3 Units
CWE 51Z 4 Units
Prerequisite: Student must be working in a job related to declared occupational program or educational goal.
Corequisite: Concurrent enrollment in at least seven units, including Work Experience (Fall, Winter and Spring quarters), or in at least one other course during Summer Session.
Any combination of CWE 51 series and CWE 52 series courses may be taken for a maximum of 24 units.
Fifty hours of paid employment or forty hours of unpaid employment for each unit of credit.
Identify and assess learning in current job. Introduce career paths within occupational choice. Learning/performance objectives are agreed upon between student and employer.
CWE 60, U

OCCUPATIONAL WORK

EXPERIENCE: APPRENTICE

Advisory: Apprentices must be working in a job related to declared occupational program or educational goal.

Corequisite: Concurrent enrollment in at least seven units, including Work Experience (Fall, Winter and Spring quarters), or in at least one other course during Summer Session.

Any combination of CWE 60 series courses may be taken for a maximum of 24 units.

12 hours paid or unpaid for 18 weeks or equivalent employment per unit of credit. Identify and assess learning in current job. Introduce career paths within occupational choice. Learning/performance objectives are agreed upon between apprentice and employer. The CWE 60 courses are normally taken for an 18 week semester with concurrent enrollment in an approved apprenticeship program.

One hour lecture.

CNSL 85H TRANSFER READINESS 1 Unit

One and one-half hours lecture.

Advisory: CNSL 85G or equivalent.

CNSL 85GA ADVANCED ASSERTIVE COMMUNICATION 1.5 Units

One and one-half hours lecture.

CNSL 85G ASSERTIVE COMMUNICATION 1.5 Units

One hour lecture.

CNSL 60B COLLEGE SUCCESS: COMPETITION 1 Unit

One hour lecture.

How competition with the self and within the college structure contribute to college success.

CNSL 60A COLLEGE SUCCESS: WELLNESS 1 Unit

One hour lecture.

A thorough examination of issues surrounding how wellness contributes to college success. Application of strategies to improve wellness will be administered with an individualistic and group approach.

CNSL 60X COLLEGE SUCCESS: TASK-ORIENTED 3 Units

One hour lecture.

Focus on task-orientation; how time management, expectations, control and competition are related to personal and academic success.

CNSL 60C COLLEGE SUCCESS: TIME MANAGEMENT 1 Unit

One hour lecture.

A comprehensive time management plan will be initiated and applied.

CNSL 60B COLLEGE SUCCESS: COMPETITION 1 Unit

One hour lecture.

How competition with the self and within the college structure contribute to college success.

CNSL 54 STUDY SKILLS FOR STUDY TEAMS 1 Unit

May be taken six times for credit.

Advisory: Concurrent enrollment in at least seven units, including Work Experience (Fall, Winter and Spring quarters), or in at least one other course during Summer Session.

Any combination of CWE 70 series courses may be taken for a maximum of nine units, not to exceed 24 units total of any Cooperative Work Experience courses.

Fifty hours of paid employment or forty hours of unpaid employment for each unit of credit.

Students will acquire and identify transferable skills gained under actual working conditions. Students will develop understanding, appreciation and respect for work and workers. Through holding a job, fulfilling work-related assignments and participating in on-campus activities, students are assisted in the process of developing a concept of self, understanding their role in the work world and setting realistic goals. An assigned faculty coordinator helps the student focus on the job skills necessary for transition into a chosen career.

CNSL 53 EFFECTIVE STUDY 3 Units

Three hours lecture.

Approaches to college learning, including diagnosis of difficulties and a development of new skills.

CNSL 52 COLLEGE & LIFE MANAGEMENT 4 Units

Three hours lecture, three hours laboratory.

Examination of psycho-social and wellness issues related to personal and academic success. Explores theories and practice for effective goal-setting, communication, health and wellness, learning and social growth.

CNSL 51 PASS THE TORCH TRAINING: LEARNING STRATEGIES FOR STUDENTS PAIRED IN ONE-ON-ONE STUDY TEAMS 1 Unit

One hour lecture.

Pass the Torch is a one-on-one study team program that pairs two students in English Composition, English as Second Language Composition and Mathematics classes. One student has earned an A in the class or a higher level of the subject and as Team Leader provides academic support to the other student who is currently enrolled in the class and as Team Member is the recipient of the academic support. Exploration of learning concepts and strategies essential to succeeding in Pass the Torch as a team member in mathematics, English/ESL composition classes.

CNSL 50 INTRODUCTION TO COLLEGE 1 Unit

One hour lecture.

Orientation to Foothill College academic policies, resources, programs and services; introduction to California systems of higher education; formulation of educational plan.

CNSL 49H TRANSFER READINESS 1 Unit

One hour lecture.

Learn to choose a college or university; prepare academically; apply and use counselors and transfer programs to enhance transfer eligibility.

CNSL 49G ASSERTIVE COMMUNICATION 1.5 Units

One and one-half hours lecture.

Understanding assertive, non-assertive and aggressive patterns of communication. Development of basic assertive communication skills to achieve effective communication using fair play, mutual respect, honesty and reasonable compromise.

CNSL 49GA ADVANCED ASSERTIVE COMMUNICATION 1.5 Units

Advisory: CNSL 49G or equivalent.

One and one-half hours lecture.

Review of basic assertive communication; advanced concepts in assertive thinking, feeling and behavior. Examination of irrational thinking, criticism and anger of assertive communication.

CNSL 49H TRANSFER READINESS 1 Unit

One hour lecture.

Learn to choose a college or university; prepare academically; apply and use counselors and transfer programs to enhance transfer eligibility.

CNSL 49GA ADVANCED ASSERTIVE COMMUNICATION 1.5 Units

Advisory: CNSL 49G or equivalent.

One and one-half hours lecture.

Review of basic assertive communication; advanced concepts in assertive thinking, feeling and behavior. Examination of irrational thinking, criticism and anger of assertive communication.

CNSL 49H TRANSFER READINESS 1 Unit

One hour lecture.

Learn to choose a college or university; prepare academically; apply and use counselors and transfer programs to enhance transfer eligibility.

CNSL 49GA ADVANCED ASSERTIVE COMMUNICATION 1.5 Units

Advisory: CNSL 49G or equivalent.

One and one-half hours lecture.

Review of basic assertive communication; advanced concepts in assertive thinking, feeling and behavior. Examination of irrational thinking, criticism and anger of assertive communication.

CNSL 49H TRANSFER READINESS 1 Unit

One hour lecture.

Learn to choose a college or university; prepare academically; apply and use counselors and transfer programs to enhance transfer eligibility.
CNSL 85P  TRANSFER READINESS FOR ACADEMICALLY ASSISTED STUDENTS 1 Unit
Advisory: CRLP 70. Pass/No Pass.
One hour lecture.
Designed to improve student understanding of the requirements for and transition process to the four-year college and university system, and to facilitate this transition.

CNSL 86  LEADERSHIP: THEORIES, STYLES & REALITIES 1 Unit
CNSL 86X  2 Units
CNSL 86Y  3 Units
Advisory: Eligibility for ENGL 110 or ESL 25 recommended.
Any combination of CNSL 86, 86X & 86Y may be taken for a maximum of 6 units.
One hour lecture.
Introduction to the dynamics of working groups and the impact of leadership on the effectiveness of groups; examination of the linkage between concepts and theories of leadership to the everyday functioning of student organizations; understand the role played by structure and governance models in organizational effectiveness.

CNSL 86LX  LEADERSHIP LABORATORY 1 Unit
CNSL 86LY  2 Units
CNSL 86LZ  3 Units
Any combination of CNSL 86LX, 86LY & 86LZ may be taken for a maximum of 18 units.
Three hours laboratory for each unit of credit.
Practical field experience for students in campus leadership positions, related to material being presented in CNSL 86.

CNSL 90  INTRODUCTION TO ONLINE LEARNING 1 Unit
Advisory: Familiarity with an Internet Browser and E-mail recommended.
One hour lecture, two hours computer time.
This course covers concepts, tools and techniques for success in on-line learning. Through self-assessment, On-line interaction, and use of the various tools and resources of the Internet the student will develop an understanding of the skills needed to be successful when engaging in on-line instruction.

CNSL 100  INTRODUCTION TO COLLEGE FOR HEALTH SCIENCE STUDENT 1 Unit
Advisories: Not open to students with credit in CNSL 50.
One hour lecture.
Introduction to Foothill College health science programs, academic policies and resources; formulation of student educational plan.

CNSL 101  COLLEGE BASICS 2 Units
Two hour lecture
Designed to assist bilingual/bicultural students in effectively exploring personal and academic decisions. Students will identify personal strengths and weaknesses as they pertain to college. Come and learn in a fun and interactive environment the following topics: systems of higher education in the U.S., self-esteem, goals, values, time management, cultural issues, student services and study skills.

CNSL 175  EOPS: THE ROAD TO COLLEGE SUCCESS: MORE THAN JUST BOOKS 1 Unit
One hour lecture.
Course will introduce EOPS/CARE students to various EOPS services, policies and requirements governing programs. Course encourages collaborative learning, educational attainment, promotes student retention, persistence, success. Topics included: financial aid/scholarship applications, identifying campus resources, budgeting and managing money, cultural identity and experiences, goal-setting, self-esteem, career options, managing time.

CNSL 200L  INTRODUCTION TO COLLEGE LABORATORY .5 Unit
Non-degree applicable credit course.
Advisory: Pass/No Pass.
One hour laboratory.
Web based activities to expand understanding of Foothill College resources and services. This course will enhance understanding of concepts and skills used in CNSL 50.

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CNSL 200L  INTRODUCTION TO COLLEGE LABORATORY .5 Unit
Non-degree applicable credit course.
Advisory: Pass/No Pass.
One hour laboratory.
Web based activities to expand understanding of Foothill College resources and services. This course will enhance understanding of concepts and skills used in CNSL 50.

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CREATIVE WRITING

Language Arts Division  (650) 949-7250
www.foothill.edu/la/

CRWR 6  INTRODUCTION TO CREATIVE WRITING 5 Units
Advisory: Eligibility for ENGL 1A.
Five hours lecture, one hour laboratory.
Explicit instruction and practice in writing poetry and short fiction. Assignments include reading, analyzing and responding to published and student work and writing original work. Analysis of public readings and/or interviews with writers.

CRWR 34  HONORS INSTITUTE SEMINAR IN CREATIVE WRITING 1 Unit
Prerequisite: Membership in the Honors Institute. Eligibility for ENGL 1A.
One hour lecture.
A seminar in directed readings, discussions and projects in creative writing. Specific topics to be determined by the instructor.

CRWR 36B  PLAYWRITING 4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in VART 5B, DRAM 5C.
May be taken six times for credit.
Four hours lecture, one hour laboratory.
Introduction to writing for the stage. Examination and practice of story structure, character development, dialogue crafting, with an emphasis on understanding the unique visual and imaginative nature of writing for the theatre.

CRWR 39A  INTRODUCTION TO SHORT FICTION WRITING 5 Units
Advisory: Eligibility for ENGL 1A.
May be taken two times for credit.
Five hours lecture, one hour laboratory.
Explicit instruction and practice in writing a variety of short fiction forms, including short narratives, flash fiction, and traditional short stories. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Lecture and workshop. Analysis of public readings and/or interviews with writers.

CRWR 39B  ADVANCED SHORT FICTION WRITING 5 Units
Prerequisite: CRWR 39A.
May be taken two times for credit.
Five hours lecture, one hour laboratory.
Explicit instruction and practice in writing a variety of short fiction forms, including short narratives, flash fiction, and traditional short stories. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Class presentations and workshop leadership. Lecture and workshop. Analysis of public readings and/or interviews with writers.

CRWR 40  INTRODUCTION TO WRITING THE NOVEL 5 Units
Advisory: Eligibility for ENGL 1A.
May be taken four times for credit.
Five hours lecture, one hour laboratory.
Explicit instruction and practice in writing sequenced chapters for a novella or a novel. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Lecture and workshop. Analysis of public readings and/or interviews with writers.
Dental Assisting

Biological & Health Sciences Division
(650) 949-7351
www.foothill.edu/bio/programs/dentala/

D A 50 ORIENTATION TO DENTAL ASSISTING 2.5 Units
Two and one-half hours lecture, one hour collaborative learning.
Preview of dental practice, including specialties, History, professional and legal responsibilities and the role of the dental auxiliary; dental forms, record keeping, patient communication and office personnel relations.

D A 51A INTRODUCTION TO CHAIRSIDE DENTAL ASSISTING 5.5 Units
Two and one-half hours lecture, one hour seminar, nine hours laboratory, eight hours field experience.
Introduction to chairside assisting; use and care of dental equipment, patient management, instrument identification; overview of common dental procedures such as composite, amalgam, partials, dentures, root canals, crown and bridge appointments; manipulation of dental materials commonly prepared or used by the dental assistant including temporary dressings, Impression materials, cement bases and liners, topical agents, composites, resins and amalgams.

D A 51B INTERMEDIATE CLINICAL DENTAL ASSISTING 2 Units
One and one-half hour lecture, two hours laboratory.
Continuation of techniques introduced in D A 51A; periodontal and oral surgery procedures. Registered Dental Assistant orthodontic functions, fabrication of bleaching splints, dental sealants.

D A 51C ADVANCED DENTAL ASSISTING SKILLS 3 Units
Two and one-half hours lecture, four hours laboratory.
Continuation of techniques introduced in D A 51A and 51B to include pulp vitality testing, fluoride administration, intraoral/extraoral exam, polishing removable partial and full dentures, dental implants, and pedodontic procedures. Theory and practice of coronal polishing.

D A 52 ORAL HYGIENE 2 Units
One hour lecture, one hour laboratory.
Theory and practice of coronal polishing.

D A 53A INTRODUCTION TO RADIOGRAPHY 3 Units
Prerequisite: Admission to Dental Assisting Program.
Two hours lecture, three hours laboratory.
Production, characteristics, and biologic effects of radiation; function, components, and operation of the X-ray unit; radiation protection and monitoring; chemistry and techniques associated with X-ray film and developing solutions. Review of anatomic landmarks, introduction to intraoral long-cone radiographic techniques in the bitewing, periapical and occlusal surveys.

D A 53B DENTAL RADIOGRAPHY 2 Units
Prerequisite: D A 53A.
One hour lecture, three hours laboratory.
Intraoral techniques continued; evaluation of film quality, recognition of anomalies and variations in tissue density, specialized procedures for the pedodontic, endodontic, and edentulous patient, forensic and legal considerations, and principles of panoramic and cephalometric film.

D A 53C DENTAL RADIOGRAPHY 1 Unit
Prerequisite: D A 53A and 53B.
Three hours laboratory.
Intraoral techniques and film evaluation continued; film interpretation for dental charting; introduction to short cone and bisecting angle radiographic techniques.

D A 54 DENTAL OFFICE PRACTICES 4 Units
Two and one-half hours lecture, one hour laboratory.
Introduction to appointment management, telephone techniques, dental and patient communication, patient privacy and confidentiality, introduction to computer systems, and use of computers in the dental office.

D A 55 DENTAL OFFICE BUSINESS PRACTICES 2 Units
Three hours lecture, one hour laboratory.
Introduction to purchasing, inventory and cost control; banking, payroll and tax procedures; resume writing and interviewing techniques. Includes billing and insurance procedures, collection of accounts, treatment plans and case presentations, bookkeeping and accounting procedures. Instruction in both manual and computer applications.

D A 56 DENTAL HEALTH EDUCATION 1 Unit
One hour lecture.
Familiarization with the scope of practice in both general and specialty dental office settings. The emphasis of this survey class will be on the role of the auxiliary personnel in each of the different types of dental practices.

D A 58 SPECIALITY PRACTICE PROCEDURES 1 Unit
One hour lecture.
Familiarization with the scope of practice in both general and specialty dental office settings. The emphasis of this survey class will be on the role of the auxiliary personnel in each of the different types of dental practices.

D A 60A DENTAL OFFICE BUSINESS PRACTICES 2 Units
Two hours lecture, one hour laboratory.
Introduction to purchasing, inventory and cost control; banking, payroll and tax procedures; resume writing and interviewing techniques. Includes billing and insurance procedures, collection of accounts, treatment plans and case presentations, bookkeeping and accounting procedures. Instruction in both manual and computer applications.

D A 61 ULTRASONIC SCALING FOR THE RDA 1.5 Units
Prerequisite: DA 51A, 51B, or equivalent.
One hour lecture, one and one-half hours laboratory.
Theory and practice of the Ultrasonic Scaler in removing excess supragingival cement and variations in tissue density, specialized procedures for the pedodontic, endodontic, and edentulous patient, forensic and legal considerations, and principles of panoramic and cephalometric film.

D A 62A DENTAL SCIENCES 2 Units
Two hours lecture, one hour laboratory.
Introduction to appointment management, telephone techniques, dental and patient communication, patient privacy and confidentiality, introduction to computer systems, and use of computers in the dental office.
D A 62B DENTAL SCIENCES 2 Units
Two hours lecture.
An overview of the embryologic development of the structures and tissues of the head, neck, teeth and oral cavity, histology of the hard and soft tissues of the oral cavity. Developmental and structural defects involving the oral cavity and the teeth. Periodontal diseases, caries process and oral pathology.

D A 62C DENTAL SCIENCES 2 Units
Two hours lecture.
Microbiologic and nutritional conditions related to dentistry; etiology, symptoms, transmission and control of infective and contagious diseases, nutritional physiology, and counseling, effect of nutrition on general dental health. Pharmacology of local anesthetic solutions, analgesic gases, and psychosedatives, and antibiotic agents. Use of nitrous oxide equipment.

D A 63 SPECIAL PATIENT POPULATIONS 1 Unit
One hour lecture.
Discussion and development of techniques and/or equipment needed to meet the needs of special patient populations, including the physically and/or emotionally limited.

D A 71 INFECTION CONTROL & HAZARDOUS WASTE MANAGEMENT 1.5 Units
One and one-half hour lecture, one hour field study.
Introduction to infectious diseases important to dentistry. Instruction on disinfection, instrument decontamination, sterilization procedures and tray set-up preparation. Regulatory compliance agencies such as OSHA, CDC and ADA recommendations. Hazardous materials management and waste management. Protocols and emergency procedures for hazardous and biohazardous waste or materials.

D A 73 DENTAL ASSISTING SUPERVISED CLINIC 3 Units
Prerequisite: D A 51A, Sixteen hours clinic, two hours field study.
Continuation of techniques introduced in D A 51A; supervised clinical experience in externship environment, chairside dental assisting in general practice and specialty clinics at the UCSF School of Dentistry.

D A 74 DENTAL ASSISTING CLINICAL PRACTICE 3 Units
17 hours clinic, two hours field study.
Continuation of techniques introduced in D A 51A, 51B and 73; supervised clinical experience in externship environment; advanced and specialty chair side procedures.

D A 85 RDA REVIEW 1 Unit
Prerequisites: D A 51A and 51B.
May be taken three times for credit.
One hour lecture, three hours laboratory, two hours field study.
Information necessary for completion of requirements for national certification and Registered Dental Assisting (RDA) licensure in the State of California. Review of chairside dental assisting procedures to prepare for written and practical examinations. Sizing of stainless steel crowns. Fabrication of temporary crowns and Class II temporary restorations.

D A 190 DIRECTED STUDY .5 Unit
D A 190X 1 Unit
D A 190Y 1.5 Units
D A 190Z 2 Units
Advisory: Pass/No Pass.
Any combination of D A 190, 190X, 190Y & 190Z may be taken for a maximum of six units.
One-half hour lecture, one and one-half hours laboratory for each one-half unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

D A 50 ORIENTATION TO DENTAL HYGIENE 1 Unit
Prerequisite: Admission to Dental Hygiene Program.
One and one-half hours lecture-laboratory.
Overview of dental hygiene as a career. Dental terminology, introduction to instrumentation skills, including: modified pen grasp, fulcrums, adaptation, insertion and activation of the explorer. The course will involve some online work, observation in clinic, and instrumentation on typodonts.

D H 52A ORAL BIOLOGY 3 Units
Prerequisite: Admission to Dental Hygiene Program.
Two hours lecture, two hours laboratory.
Discussion of the anatomy and identification of the teeth, the eruption sequence, normal occlusion, and classification of occlusion. Anatomy of the skull, arteries, veins, and lymphatics, musculature and nervous structures of the head and neck.

D H 52B ORAL BIOLOGY 3 Units
Prerequisite: D H 52A.
Two hours lecture, two hours laboratory.
The embryologic development of the structures and tissues of the head, neck, teeth and oral cavity; histology of the hard and soft tissues of the oral cavity. Anatomy of the tooth crown, root and pulp; development and structural defects involving the oral cavity and the teeth. The normal periodontal tissues, oral mucous membranes, and salivary glands.

D H 53 ASSESSMENT PROCEDURES IN THE DENTAL HYGIENE PROCESS 4 Units
Prerequisite: Admission to Dental Hygiene Program.
Four hours lecture.
First in a 3 course series in dental hygiene theory and practice. This course will focus on the principles of assessment techniques as the first phase of the dental hygiene process of assessment, planning, implementation, and evaluation. The rationale for collection of assessment data, and associated clinical procedures will be discussed. Introduces infectious diseases important to dentistry, hazardous materials management, and waste management, and rules of regulatory agencies (OSHA, CDC and ADA).

D H 54 PRE-CLINICAL DENTAL HYGIENE 4 Units
Prerequisite: Admission to Dental Hygiene Program.
One hour lecture, nine hours laboratory, three hours field experience.
First in a seven-course series in dental hygiene clinical practices. Integration of the scientific and clinical principles underlying the practice of dental hygiene. Clinical procedures and techniques for patient assessment, including prevention of disease transmission, health History, extra-intraoral examination, gingival evaluation and periodontal examination. Operation of the dental unit, and basic instrumentation techniques for removal of plaque and calculus will also be discussed. Field experiences reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting.

D H 55A FUNDAMENTALS OF PATHOLOGY 2 Units
Corequisite: D H 52B.
Two hours lecture.
Introduction to general pathology and specific pathologic processes, repair, healing, and regressive changes. Social significance of pathology.

D H 55B FUNDAMENTALS OF PATHOLOGY 2 Units
Corequisite: D H 55A.
Two hours lecture.
Pathology of the head, neck, and oral structures. Developmental conditions caries, diseases of bacterial and viral origin, neoplasms of the oral cavity.

D H 56 APPLIED PHARMACOLOGY IN DENTISTRY 2 Units
Prerequisite: BIOL 46, D H 61A or licensed dental hygienist or dentist.
Two hours lecture.
A study of drugs by groups with special emphasis on those used in dentistry, including their physical and chemical properties, dosage and therapeutic effects.
D H 60A INTRODUCTION TO DENTAL RADIOGRAPHY 2 Units
Prerequisite: D H 59.
One hour lecture.
Production characteristics and biologic effects of radiation, function, components, and operation of the X-ray unit. Radiation protection and monitoring of personnel. Chemistry and techniques associated with X-ray film and developing solutions. Review of anatomic landmarks and principles of shadow casting.

D H 60B DENTAL RADIOGRAPHY 1 Unit
Prerequisite: D H 60A.
Three hours laboratory.
Introduction to intra-oral techniques in dental radiography, including film exposure, processing, and mounting. Group and individual evaluation and interpretation of films exposed on mannequin and lab partner. Continuation of exposure of dental radiographs on clinical patients.

D H 60C DENTAL RADIOGRAPHY .5 Unit
Corequisite: D H 60B.
One hour lecture-laboratory.
Practice of dental radiographic techniques on clinic patients, including the exposure, processing, and mounting of films. Continuation of group and individual evaluation and interpretation of films exposed in clinic.

D H 60D DENTAL RADIOGRAPHY .5 Unit
Prerequisite: Admission to Dental Hygiene Program.
One hour lecture.
Production characteristics and biologic effects of radiation, function, components, and operation of the X-ray unit. Radiation protection and monitoring of personnel. Chemistry and techniques associated with X-ray film and developing solutions. Review of anatomic landmarks and principles of shadow casting.

D H 60E DENTAL RADIOGRAPHY .5 Unit
Prerequisite: D H 60D.
One hour lecture-laboratory.
Continuation of film exposure, processing and mounting; group-individual evaluation and interpretations of film.

D H 61A CLINICAL TECHNIQUE 5 Units
Prerequisites: D H 52A and 54 or completion of a dental hygiene program with equivalent courses.
Three hours lecture, nine hours laboratory, three hours field experience.
Continuation of dental hygiene clinical practice and instrumentation techniques. Comprehensive periodontal examination, scaling and root planing, sharpening. Adjunctive dental hygiene procedures: fluorides, selective coronal polishing. Clinical activities utilize typodonts and student partners. Supportive labs and observation to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for DH 61A.

D H 61B INTRODUCTION TO CLINIC 4 Units
Prerequisite: D H 61A and 52B. Possession of a current CPR certificate.
Three hours lecture, six hours clinic, three hours field experience.
Continuation of clinical dental hygiene practice. Assessing, planning, and implementing dental hygiene care on patients in a clinical setting. Dental hygiene care for patients with special needs. Development of progress in clinical performance with each successive academic period.

D H 62A CLINICAL DENTAL HYGIENE 2.5 Units
Prerequisite: D H 61B.
Two hours lecture, nine hours clinic, one hour field experience.
Continuation of dental hygiene clinical practice. Assessing, planning, implementing, and evaluating dental hygiene care on patients in a clinical setting. Development of progress in clinical performance with each successive academic period.

D H 62B CLINICAL DENTAL HYGIENE 5 Units
Prerequisite: D H 57A and 61A.
One hour lecture, 19 hours clinic, three hours field experience.
Continuation of dental hygiene clinical practice. Assessing, planning, implementing and evaluating dental hygiene care on patients in a clinical setting. Adjunctive clinical procedures to be performed include: dental charting, desensitization of hypersensitive teeth, ultrasonic scaling, amalgam finishing and administration of local anesthetics.

D H 62C CLINICAL DENTAL HYGIENE 5 Units
Prerequisite: D H 62B.
One hour lecture, 19 hours clinic, three hours field experience.
Continuation of dental hygiene clinical practice. Assessing, planning, implementing and evaluating dental hygiene care on patients in a clinical setting. Adjunctive clinical procedures to be performed include: dental charting, desensitization of hypersensitive teeth, ultrasonic scaling, overhang removal, amalgam finishing, and administration of local anesthetic.

D H 62D CLINICAL DENTAL HYGIENE 5 Units
Prerequisite: D H 62C.
One hour lecture, 19 hours clinic, three hours field experience.
Continuation of dental hygiene clinical practice. Continuation of on- and off-campus clinical experiences. Assessing, planning, implementing and evaluating dental hygiene care on patients in a clinical setting. Designed to complete the development of competencies demanded of the hygienist entering the field.

D H 62E CLINICAL DENTAL HYGIENE 3 Units
Prerequisite: D H 73.
Two hours lecture, eight hours field experience.
Introduction into community dental health programs and school dental health programs; development and implementation of a community dental health program.

D H 63D COMMUNITY DENTAL HEALTH 3 Units
Prerequisite: D H 63C.
Two hours lecture, eight hours field experience.
Continuation of developing a community dental health program, evaluation of local, state, and federal departments of public health service, research and statistics in public health, and meeting the demand for dental health care.

D H 64 ETHICS, LAW & DENTAL OFFICE PRACTICES 2 Units
Advisory: D H 63D.
Two hours lecture.
Ethics, jurisprudence and practice aspects of private practice.
D H 65   CLINICAL LOCAL ANESTHESIA  2.5 Units
Prerequisites: D H 55A, 61B, or completion of dental hygiene program with
equivalent courses. Possession of current CPR certificate.
Two hours lecture, one and one-half hours laboratory.
Review of pharmacology, anatomy, physiology, and emergency procedures
associated with local anesthetic procedures. Preparation for and administration
of conduction and infiltration anesthesia in dental procedures. Laboratory and
clinical experience in administration.

D H 66   SOFT TISSUE CURETTAGE  1 Unit
Prerequisite: D H 65.
One hour lecture.
Training for the dental hygiene student or dental hygienist in performing soft
tissue curettage.

D H 67   NITROUS OXIDE/OXYGEN ANALGESIA  1 Unit
Prerequisite: D H 66.
Two hours lecture-laboratory.
Training for the dental hygiene student or dental hygienist in performing nitrous
oxide/oxygen analgesia.

D H 68A  RADIOGRAPHIC INTERPRETATION A  1 Unit
Prerequisite: D H 60A.
One hour lecture.
Continued experiences in the interpretation of intraoral and panoramic radiographs,
including identification of normal and non-normal structures, radiographic
considerations of bone and teeth and signs of pathology. Identification and
interpretation of radiographic caries, periodontal disease, trauma, and dental
anomalies. Introduction to digital radiography.

D H 68B  RADIOGRAPHIC INTERPRETATION B  1 Unit
Prerequisite: D H 60A.
One hour lecture.
Advanced radiographic interpretation utilizing intraoral panoramic, cephalometric,
and other extraoral radiographs. Discussion of future trends in radiographic imaging.

D H 71   OFFICE EMERGENCY PROCEDURES  2 Units
Prerequisite: Admission to Dental Hygiene Program.
Advisory: Not open to students with credit in D A 57.
Two hours lecture.
This course is a study of common medical emergencies that may occur during
delivery of dental care. Emphasis is placed on methods to prevent emergencies
from occurring and procedures to manage emergency situations. Ethical and legal
aspects in assisting during emergencies are also discussed.

D H 72   DENTAL MATERIALS  3 Units
Prerequisite: Admission to Dental Hygiene Program.
Two hours lecture, three hours laboratory.
Properties of dental materials, characteristics and manipulation of impression
materials, gypsum products, investment, cements, resins, metallic and non-metallic
restorative materials.

D H 73   DENTAL HEALTH EDUCATION  2 Units
Advisory: DH 53, PSYC 1.
Two hours lecture.
Fundamentals of patient education to include communication theory, development of
client/clinician relationships, mechanical plaque removal techniques, antimicrobial
therapies, patient motivation with particular attention to psychological, social, and
economic factors. Introduction to nutritional counseling, tobacco cessation, critique
of dental literature, and evaluation of dental health products.

D H 75A  CLINICAL DENTAL HYGIENE THEORY  1 Unit
Corequisite: Concurrent enrollment in the Dental Hygiene Program.
One hour lecture, three hours laboratory.
Discussion and demonstration of supplemental dental hygiene functions: digital
intraoral photography, dental hygiene instrumentation, ultrasonic and micro-ultrasonic
scaling techniques. Supportive course to reinforce and amplify the knowledge and
skills needed to perform dental hygiene procedures in the clinical setting for D H 62C.

D H 75B  CLINICAL DENTAL HYGIENE THEORY  1.5 Units
Corequisite: Concurrent enrollment in Dental Hygiene Program.
One hour lecture, three hours laboratory.
Discussion and demonstration of supplemental dental hygiene functions, amalgam
overhang removal, orthodontic therapy and dental hygiene, advanced instrumentation
technique, air polishing, advanced local anesthesia delivery techniques, implants
in dentistry and new technology in dental hygiene. Supportive course to reinforce
and amplify the knowledge and skills needed to perform dental hygiene procedures
in the clinical setting for D H 62C.

D H 75C  CLINICAL DENTAL HYGIENE THEORY  1.5 Units
Corequisite: Concurrent enrollment in the Dental Hygiene program.
One hour lecture, three hours laboratory.
This course is designed to aid the student in identifying an appropriate patient
for the California State Board Exam for Dental Hygienists and in identifying and
anticipating methods which will influence a successful state board experience.
Supportive course to reinforce and amplify the knowledge and skills needed to
perform dental hygiene procedures.

D H 85   SPECIAL TOPICS IN DENTAL HYGIENE  1 Unit
Prerequisites: D H 55B and 62B.
May be taken six times for credit.
One hour lecture.
New developments in dentistry which affect the practice of dental hygiene;
information necessary for completion of requirements for national certification
and licensure in the State of California.

D H 86   CALIFORNIA STATE BOARD PREPARATION  1 Unit
Prerequisite: D H 62 D or equivalent.
Advisory: Pass/No Pass.
May be taken two times for credit.
One-half hour lecture, two hours laboratory.
This course is designed to aid the student in identifying an appropriate patient
for the California State Board Exam for Dental Hygienists and in identifying and
anticipating methods which will influence a successful state board experience.

D H 190   DIRECTED STUDY  5 Unit
D H 190X  1 Unit
D H 190Y  1.5 Units
D H 190Z  2 Units
Advisory: Pass/No Pass.
Any combination of D H 190, 190X, 190Y & 190Z may be taken for a maximum
of six units.
One-half hour lecture, one and one-half hours laboratory for each one-half
unit of credit.
For students who desire or require additional help in attaining comprehension and
competency in learning skills. May include off-campus clinical rotations.

D H 200L  INTRODUCTION TO DENTAL HYGIENE  1.5 Units
Three hours lecture-laboratory.
Introduction to the profession of dental hygiene. Emphasis on dental terminology,
communication skills, licensure requirements and clinical and lab techniques
related to dental hygiene clinical practice.

DIAGNOSTIC MEDICAL SONOGRAPHY

Biological & Health Sciences Division  (650) 949-3998
www.foothill.edu/bio/programs/ultra/

DMS 50A  DIAGNOSTIC MEDICAL SONOGRAPHY
PRINCIPLES & PROTOCOLS  4 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
Four hours lecture.
An intensive course about fundamentals of ultrasound principles, protocols, and
scanning involving the major abdominal organ structures, gynecology, obstetrics,
and vessels. Sonographic terminology, orientation and descriptions of normal
and abnormal structures. It is assumed the student has a thorough knowledge of
gross and sectional anatomy.
DMS 50B  SONOGRAPHY & PATIENT CARE  2 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
Two hours lecture.
This course is designed to define the student sonographer's role on the medical team. It prepares the student to enter the clinical environment including instruction in sonographer safety and ergonomics. Legal, ethical, legislative and regulatory issues including scope of practice and standards. Patient care techniques, clinical assessment, diagnosis and treatment. Interacting with cultural, age, and the special needs population. Professionalism, competency-based education, and leadership

DMS 51A  SECTIONAL ANATOMY  3 Units
Prerequisite: BIOL 40A,B,C or equivalent. Some background with Medical Terminology or equivalent. Health Care Professional or student of Allied Health occupation.
Three hours lecture, one hour case study.
Sectional human anatomy for health care professionals, students of Allied Health and nursing professions. Emphasis on transverse, coronal and sagittal planes and correlation to other imaging modalities. Discussions include pathology-related alterations to sectional anatomy images.

DMS 52A  PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY  3 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Three hours lecture.
Principles of diagnostic ultrasound, transducers and beam dynamics, pulse-echo instrumentation and display systems, review of mathematical skills.

DMS 52B  PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY  3 Units
Prerequisite: DMS 52A.
Three hours lecture.
A continuation of Physical Principles I with an emphasis on advanced principles in medical ultrasound instrumentation, hemodynamics, bioeffects, artifacts and sonographic quality control procedures.

DMS 53A  DIAGNOSTIC MEDICAL SONOGRAPHY  2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Two hours lecture, one and one-half hour internet skills.
Anatomy and physiology related to the major abdominal organs and major abdominal vessels. Assessment including physical, clinical symptoms, and laboratory findings. Related pathology and its sonographic appearance involving these structures. Scanning protocols, technical factors and image quality.

DMS 53B  DIAGNOSTIC MEDICAL SONOGRAPHY  2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Two hours lecture, one and one-half hours internet skills.
Anatomy and physiology related to major and superficial structures and organs including sonography of abdominal organs and superficial structures. Assessment including physical, clinical symptoms, laboratory findings, and pathology including the sonographic appearances. Scanning protocols, technical factors and image quality.

DMS 53C  DIAGNOSTIC MEDICAL SONOGRAPHY  2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Two hours lecture, one and one-half hours internet skills.

DMS 54A  GYNECOLOGY  2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Two hours lecture, one hour internet skills.
Anatomy and physiology of the nongravid pelvis. Pathology, sonographic appearance, and clinical symptoms of the female patient. Sonographic protocols and measurements with correlations to accepted standards.

DMS 55A  OBSTETRICS  2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Two hours lecture, one hour internet skills.
Normal fetal growth and sonographic measurements with correlation to accepted standards. Development of the placenta, amniotic fluid and cord. Abnormalities, pathology and maternal complications.

DMS 55B  OBSTETRICS  2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Two hours lecture, one hour internet skills.
Advanced obstetrical sonography. Abnormal fetal growth and sonographic measurements with correlations to accepted standards. Abnormalities, pathology and maternal complications.

DMS 56A  VASCULAR SONOGRAPHY  3 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
Three hours lecture.
Vascular terminology and physical principles specific to hemodynamics including the principles and interpretation of frequency spectrum analysis. Arterial, venous, cerebrovascular and abdominal applications related to vascular technology. Normal, abnormal and pathologic states of the human vascular system.

DMS 56B  ADVANCED APPLICATIONS OF VASCULAR TECHNOLOGY  3 Units
Prerequisite: DMS 56A and six months full-time clinical experience in vascular sonography be completed prior to enrollment or equivalent. May be taken three times for credit.
Three hours lecture.
Instruction includes the advanced principles & theory of noninvasive vascular technology. This course will focus on a comprehensive study of arterial, venous and cerebrovascular evaluations. It is designed to help prepare individuals for the National Board for credentialing as a Registered Vascular Technologist.

DMS 60A  CRITIQUE & PATHOLOGY  2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Two hours lecture, two hours internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Emphasis on communication skills via written and oral case presentations and critiques.

DMS 60B  CRITIQUE & PATHOLOGY  1 Unit
Prerequisite: Admission to Diagnostic Medical Sonography Program.
One hour lecture, one hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on abdominal subjects.

DMS 60C  CRITIQUE & PATHOLOGY  1 Unit
Prerequisite: Admission to Diagnostic Medical Sonography Program.
One hour lecture, one hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on gynecological subjects.

DMS 60D  CRITIQUE & PATHOLOGY  1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
One hour lecture, one hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on obstetrical subjects.

DMS 60E  CRITIQUE & PATHOLOGY  1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
One hour lecture, one hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on superficial parts, pediatric, neonatal and vascular subjects.

DMS 70A  CLINICAL PRECEPTORSHIP  8.5 Units
Prerequisite: DMS 72A.
35 hours laboratory, three hours collaborative learning.
A continuation of DMS 72A. This preceptorship is to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The major emphasis is on abdominal and gynecological examinations as to delineate complete anatomic and functional information for interpretation.
DMS 70B  CLINICAL PRECEPTORSHIP  8.5 Units
Prerequisite: DMS 70A.
35 hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning.
Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The student is exposed to varied methodologies and practice philosophies in a variety of clinical settings. The major emphasis is on obstetrics, gynecology, and higher level of abdominal examinations.

DMS 70C  CLINICAL PRECEPTORSHIP  8 Units
Prerequisite: DMS 70B.
32 hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning.
Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The major emphasis is on advanced abdominal, obstetrics, and vascular sonography.

DMS 70D  CLINICAL PRECEPTORSHIP  8 Units
Prerequisite: DMS 70D.
32 hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning.
Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing all types of sonographic studies and procedures. The major emphasis is on terminal competencies leading to program completion.

DMS 70E  CLINICAL PRECEPTORSHIP  8.5 Units
Prerequisite: DMS 70D.
Thirty-two hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning.
Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on the advanced mastery of knowledge, skills, and abilities required performing all types of sonographic studies and procedures.

DMS 72A  DIAGNOSTIC MEDICAL SONOGRAPHY  PROCEDURES & APPLICATIONS  6 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
One hour lecture, 15 hours laboratory
Instruction to develop the fundamental skills, procedures and applications for sonographic image acquisition. Includes instruction in establishing technical quality parameters, interpretation and analysis, as well as case presentation. Includes hands-on participation in a structured lab setting with emphasis on simulation and live scanning exercises.

DMS 72E  DIAGNOSTIC MEDICAL SONOGRAPHY  PROCEDURES & APPLICATIONS  2 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
One hour lecture, three hours laboratory.
Advanced proficiency levels toward image acquisition, implementing technical quality, interpretation and analysis with an emphasis on the advanced practice sonographer. Will demonstrate skills through hands-on participation in a controlled lab setting with both simulation and live scanning exercises and demonstration of instructional techniques.

DMS 80A  ADVANCED SONOGRAPHIC PRINCIPLES  3 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
Completion of all prior didactic and clinical practicum courses required in the Diagnostic Medical Sonography Program.
Three hours lecture, three hours research.
Continuation of all courses as well as new developments with advanced analysis of current sonographic practice. Student presentation and critique of neoplastic cases. Information necessary for completion and participation of national registry examination.

DMS 190  DIRECTED STUDY  .5 Unit
DMS 190X  1 Unit
DMS 190Y  1.5 Units
DMS 190Z  2 Units
Advisory: Pass/No Pass
Any combination of DMS 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.
One-half hour lecture, and one and one-half hours laboratory for each one-half unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

DRAMA/THEATRE ARTS
Fine Arts & Communication Division  (650) 949-7130  www.foothill.edu/fo/DRAMA

DRAM 1  THEATRE ARTS APPRECIATION  4 Units
Four hours lecture, one hour laboratory.
Study the status of live theatre and its historical, cultural and spiritual roots and while also applying the relationship between theatre and the electronic media.
[CAN DRAM 18]

DRAM 2A  INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in ENGL 42A.
Four hours lecture.
Analysis of representative masterpieces of dramatic literature from Aeschylus to the English Renaissance Period and including Asian Theatre.

DRAM 2B  INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in ENGL 42B.
Four hours lecture.
Analysis of representative masterpieces of dramatic literature from the Elizabethan Period to the end of the 19th Century.

DRAM 2C  INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in ENGL 42C.
Four hours lecture.
Analysis of representative masterpieces of dramatic literature from the beginning of the 20th Century to the present.

DRAM 5B  PLAYWRITING  4 Units
Formerly: DRAM 5B
Prerequisite: ENGL 1A eligible.
Advisory: Not open to students with credit in VART 5B or CRWR 36B.
Four hours lecture, one hour laboratory.
Introduction to writing for the stage. Examination and practice of story structure, character development, dialogue crafting, with an emphasis on understanding the unique visual and imaginative nature of writing for the theatre.

DRAM 6  ADVANCED PLAYWRITING  4 Units
Prerequisite: DRAM 5B.
May be taken six times for credit.
Four hours lecture, one hour laboratory.
Writing for the stage. Advanced examination and practice of story structure, character development, dialogue crafting, with an emphasis on understanding the unique visual and imaginative nature of writing for the theatre.

DRAM 7  INTRODUCTION TO DIRECTING  4 Units
May be taken three times for credit.
Three hours lecture, three hours laboratory.
The qualifications of the director; the choice of plays for production; auditions and methods of casting; preparation of the play script; building the rehearsal schedule; fundamentals of composition, movement, state business and characterization as applied to the directing of plays.
DRAM 8 MULTICULTURAL MOSAIC OF PERFORMING ARTS IN AMERICA 4 Units
Four hours lecture, one hour laboratory.
A comparative study examining the important post-modern American performance movements from the 1950’s to the present day examining the specific cultural traditions of these unique performances. Focus will concentrate on the performance artists and major influences of African Americans, Asian Americans, Native Americans, Europeans Americans, and Chicano/Latino Americans.

DRAM 20A BEGINNING ACTING 3 Units
Advisory: Concurrent enrollment in DRAM 20AL recommended. Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20AL.
Six hours lecture-laboratory.
Introduction to the craft of acting, including theory and technique emphasizing body movement, voice production, articulation, characterization principles of motivation, scene analysis, through standard theatre games, exercises, monologues, and scenes. Transfers to UC and CSU. [CAN DRAM 8 = DRAM 20A + 20B]

DRAM 20A+20B

DRAM 20AL ACTING LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 20A.
Three hours laboratory.
Supervised study and rehearsal in acting projects. Three hours supervised practice.

DRAM 20B INTERMEDIATE ACTING 3 Units
Prerequisite: DRAM 20A.
Advisory: Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20BL. Concurrent enrollment in DRAM 20AL recommended.
Six hours lecture-laboratory.
Further development of concepts introduced in DRAM 20A, emphasizing improvisation and theatre games. Transfers to UC and CSU. [CAN DRAM 8 = DRAM 20A + 20B]

DRAM 20B BL ACTING LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 20B.
Three hours laboratory.
Supervised study and rehearsal in acting projects. Three hours supervised practice.

DRAM 20C ADVANCED ACTING I 3 Units
Prerequisite: DRAM 20A and 20B.
Advisory: Concurrent enrollment in DRAM 20CL recommended. Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20CL.
Six hours lecture-laboratory.
Further development of concepts introduced in DRAM 20A and 20B with focus on the performance of selected scenes from plays of various classical periods to acquaint students with the breadth of theatre performance literature. Transfers to UC and CSU.

DRAM 20C+20D

DRAM 20CL ACTING LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 20C.
Three hours laboratory.
Supervised study and rehearsal in acting projects. Three hours supervised practice.

DRAM 20D ADVANCED ACTING II 3 Units
Prerequisite: DRAM 20A, 20B and 20C.
Advisory: Concurrent enrollment in DRAM 20DL recommended. Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20DL.
Six hours lecture-laboratory.
Further development of the concepts introduced in DRAM 20A, 20B and 20C with focused exploration and examination of a selected specific area, genre or period style. Transfers to UC and CSU.

DRAM 20D+20E

DRAM 20DL ACTING LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 20D.
Three hours laboratory.
Supervised study and rehearsal in acting projects. Three hours supervised practice.

DRAM 20E ADVANCED ACTING III 3 Units
Prerequisite: DRAM 20A, 20B, 20C and 20D.
May be taken six times for credit.
Six hours lecture-laboratory.
Further development of concepts introduced in DRAM 20A with performance of specific scenes designed to introduce students to a range of dramatic challenges, coupled with ongoing work in improvisation. Transfers to UC and CSU.

DRAM 20EL ACTING LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 20E.
May be taken six times for credit.
Three hours laboratory.
Supervised study and rehearsal in acting projects. Three hours supervised practice.

DRAM 21 INTRODUCTION TO TECHNICAL THEATRE 1 Unit
Corequisites: Concurrent enrollment in DRAM 21A.
One hour lecture.
An introduction to the theory and techniques used in the production of scenery, properties, lighting, costumes and sound for stage, film and television.

DRAM 21A SCENERY & PROPERTIES CONSTRUCTION 3 Units
Corequisite: Concurrent enrollment in DRAM 21.
Six hours lecture-laboratory.
Practical experience in creating and using scenery and properties for department dramatic presentations. Safe use of basic hand and power tools used in the construction of scenery and properties for the stage.

DRAM 21B INTERMEDIATE SCENERY & PROPERTIES CONSTRUCTION 3 Units
Prerequisite: DRAM 21A.
Six hours lecture-laboratory.
Continuation of DRAM 21A. Practical experience in creating and using scenery and properties for department dramatic presentations. Safe use of basic hand and power tools used in the construction of scenery and properties for the stage.

DRAM 21C ADVANCED SCENERY & PROPERTIES CONSTRUCTION 3 Units
Prerequisite: DRAM 21B.
May be taken four times for credit.
Six hours lecture-laboratory.
Continuation of DRAM 21B. Practical experience in creating and using scenery and properties for department dramatic presentations. Safe use of tools, materials, rigging and construction techniques used in the construction of scenery and properties for the stage.

DRAM 21D CONSERVATORY THEATRE PRODUCTION 1 Unit
Maybe taken six times for credit.
Two hours lecture-laboratory.
Introduction to the theory and practice of play production: planning, design, execution, rehearsal and management. Practical experience in staging dramatic presentations, including the use of theatre equipment, set construction, painting, properties, costumes, lighting, theatre management and publicity.

DRAM 24 READERS THEATRE 4.5 Units
Prerequisite: Not open to students with credit in COMM 24.
May be taken six times for credit.
Four hours lecture, One and one-half hours laboratory.
Selection and practice of individual and group readings from various types of literature, employing a range of vocal skills, and presented in a dramatic context.

DRAM 30 ORAL INTERPRETATION 4 Units
Three hours lecture, three hours laboratory.
The techniques of selection, comprehension, interpretation, and performance of prose, poetry, and dramatic literature.

DRAM 34 HONORS INSTITUTE SEMINAR IN THEATRE ARTS 1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in theatre arts.
DRAM 40A BASIC THEATRICAL MAKE-UP 4 Units
Three hours lecture, three hours laboratory.
A practical introduction to the techniques of applying theatrical make-up for the stage. [CAN DRAM 14]

DRAM 40AL THEATRICAL MAKE-UP LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 40A.
Three hours laboratory.
Supervised study and practice in stage make-up and application techniques.

DRAM 40B THEATRICAL MAKE-UP FOR PRODUCTION 4 Units
Prerequisite: DRAM 40A.
Three hours lecture, three hours laboratory.
Continuation of work in DRAM 40A with emphasis in practical experience for the stage.

DRAM 40BL THEATRICAL MAKE-UP LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 40B.
Three hours laboratory.
Supervised study and practice in stage make-up and application techniques.

DRAM 42A INTRODUCTION TO SCENE DESIGN 4 Units
Prerequisite: DRAM 72 or equivalent.
Three hours lecture, two hours lecture-laboratory.
Theory and practice of three dimensional scene design and scenic painting using traditional and digital tools. Includes research and analysis; two-dimensional and three-dimensional set design; theatrical sketching, drafting, rendering and model making and the use of computer graphics software and equipment to create three-dimensional design for Performing Arts, Film, TV and Multimedia CD ROM and WWW.

DRAM 42B INTERMEDIATE SCENE DESIGN 4 Units
Three hours lecture, three hours laboratory.
Intermediate level of scene design and scenic painting for theatre, opera, and ballet. Complex script research and analysis; complex set design; theatrical sketching, drafting, rendering and model making and the use of computer graphics software and equipment to design scenery.

DRAM 42C ADVANCED SCENE DESIGN 4 Units
Three hours lecture, three hours laboratory.
The theory and practice of complex scene design and scenic painting for theatre, opera, and ballet. Includes advanced script research and analysis for complex set design; theatrical sketching, drafting, rendering and model making and the use of computer graphics software and equipment to design multiple set scenery.

DRAM 44 PRODUCTION PROJECTS 5 Units
Prerequisite: DRAM 20A.
May be taken six times for credit.
Four hours lecture, four hours laboratory.
An intensive training experience in all areas of theatre, culminating in a practical theatre production. Areas of study and investigation include acting techniques, voice and diction, oral interpretation, movement and dance, theatre literature and history, stage management and other technologies related to the actor. Culminates in a full-scale production, and students take charge of all areas of production.

DRAM 46 VOICE & DICTION 4.5 Units
Prerequisite: Not open to students with credit in COMM 46.
May be taken two times for credit.
A one quarter, intensive investigation of voice and diction. [CAN DRAM 6]

DRAM 47 SUMMER MUSIC-DRAMA WORKSHOP 3 Units
May be taken for a maximum of 48 units

DRAM 47X 5.5 Units
May be taken six times for credit.

DRAM 47Y 10 Units
Any combination of DRAM 47, 47X & 47Y may be taken a maximum of six times for credit.

DRAM 48 VOICE PRACTICUM FOR THE ACTOR 2 Units
Prerequisite: Concurrent or past enrollment in the Foothill Theatre Conservatory.
Three hours laboratory for each unit of credit.
A laboratory course in musical theatre stage production. Acting, singing, dance, lighting, costuming, scene design, properties, set-construction, make-up, publicity and promotion will be studied in the production of a full-scale major musical play for public performance.

DRAM 49 REHEARSAL & PERFORMANCE 2 Units
Three hours lecture-laboratory, two hours laboratory for each two units of credit.
Prerequisite: Not open to students with credit in P A 11.

DRAM 49X 4 Units
Prerequisite: Concurrent or past enrollment in the Foothill Theatre Conservatory.
Three hours laboratory, two hours laboratory for each two units of credit.
Supervised participation in scheduled productions of the Drama Department, in cast or crew. Enrollment in each course is for the duration of the production.

DRAM 49Y 6 Units
Prerequisite: Concurrent or past enrollment in the Foothill Theatre Conservatory.
Three hours laboratory, two hours laboratory for each two units of credit.
Supervised participation in scheduled productions of the Drama Department, in cast or crew. Enrollment in each course is for the duration of the production.

DRAM 51A MUSICAL THEATRE PRODUCTION 4 Units
Prerequisite: DRAM 20A (may be taken concurrently).
Three hours lecture, three hours laboratory.
Acting, singing and dancing theory; practice in the presentation of scenes from the musical theatre; historical overview of the development of the American musical theatre.

DRAM 51AL MUSICAL THEATRE PRODUCTION LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 51A.
Three hours laboratory.
Supervised study and practice in musical theatre rehearsal and performance.

DRAM 51B ADVANCED MUSICAL THEATRE 4 Units
Prerequisite: DRAM 51A.
May be taken two times for credit.
Three hours lecture, three hours laboratory.
Acting theory and practice, vocal production and theatre choreography in the presentation of complex scenes from the musical theatre.
DRAM 51 BL MUSICAL THEATRE PRODUCTION LABORATORY 1 Unit Corequisite: Concurrent enrollment in DRAM 51B. Three hours laboratory. Supervised study and practice in musical theatre rehearsal and performance.

DRAM 53 AUDITING FOR THEATRE 2 Units DRAM 53X 4 Units Prerequisite: DRAM 20A (may be taken concurrently). May be taken for a maximum of 12 units. One and one-half hours lecture, one and one-half hours laboratory. The actor’s process in preparation for audition, selection of appropriate audition materials, and presentation of self in various audition settings. Experienced professional actors and directors will be employed to help students explore the psychology and techniques of the audition process.

DRAM 54 ACTOR’S WORKSHOP 4 Units Prerequisite: DRAM 20C. May be taken six times for credit. Three hours laboratory. Further development of concepts introduced in Drama 20A, 20B and 20C through incorporating extensive participation in the performance of selected scenes from plays of various types and periods or advanced improvisational techniques.

DRAM 55A INTRODUCTION TO MIME 2 Units Advisory: DRAM 20A. One and one-half hours lecture, one and one-half hours laboratory. Further development of concepts introduced in DRAM 56A with emphasis on demonstrating greater skill and building a repertoire of varied pantomime styles.

DRAM 55B INTERMEDIATE MIME 2 Units Prerequisites: DRAM 56A. One and one-half hours lecture, one and one-half hours laboratory. The exploration of the range of possibilities for physical expression by the actor as a foundation for the creation of dramatic characters. [CAN DRAM 20]

DRAM 56 GESTURE & MOVEMENT FOR THE ACTOR 4 Units Three hours lecture, three hours laboratory. The actor’s process in preparation for audition, selection of appropriate audition materials, and presentation of self in various audition settings. Experienced professional actors and directors will be employed to help students explore the psychology and techniques of the audition process.

DRAM 57 THEATRE LIVE ON-STAGE 3 Units May be taken six times for credit. Two hours lecture, four hours laboratory. A directed, systematic examination of selected works of dramatic literature presented on the living stage, with particular emphasis on the contributing production values that make up their presentation. Attendance at outstanding Bay Area theatre companies, discussion and analysis of works seen, presentations by contributing artists. Costs of theatre admission and responsibility for transportation are borne by the student.

DRAM 58 DIALECTS & THEATRE SPEECH 4 Units Three hours laboratory, three hours laboratory. An introduction to vocal development and maintenance with specific study and work in various dialects for the stage.

DRAM 61 THEATRE LIVE ON-STAGE 3 Units May be taken six times for credit. Two hours lecture, four hours laboratory. A directed, systematic examination of selected works of dramatic literature presented on the living stage, with particular emphasis on the contributing production values that make up their presentation. Attendance at outstanding Bay Area theatre companies, discussion and analysis of works seen, presentations by contributing artists. Costs of theatre admission and responsibility for transportation are borne by the student.

DRAM 62 ACTING FOR FILM & TELEVISION 2 Units DRAM 62X 4 Units Prerequisite: DRAM 20A. May be taken six times for credit. One and one-half hours lecture, one and one-half hours laboratory. Application of concepts introduced in DRAM 20A with the necessary adaptations required for film and television performance. Work with the commercial, dramatic, documentary and industrial styles currently used in film and television.

DRAM 71 FUNDAMENTALS OF STAGE MANAGEMENT 4 Units Advisory: DRAM 20A or concurrent enrollment in DRAM 21A, 21B, or 21C. Four hours lecture. An introduction to stage management techniques in form and function for the theatre. Fundamentals of stage management procedures related to the rehearsal process. Practices in production administration through the use of stage management forms.

DRAM 72 DRAFTING FOR THE THEATRE, FILM & TELEVISION 4 Units Prerequisite: DRAM 21A, B or C or concurrent enrollment. May be taken three times for credit. Three hours lecture, three hours laboratory. Survey of drafting techniques for the theatre, film and television. Introduction to the basic elements of graphic expression and techniques used in presenting stage designs for designers and technicians working in the performing arts. Use of instruments, lettering, geometric construction, orthographic projection and technical sketching to present ground plans, elevations and working drawings. Use of computers to draft theatre designs.

DRAM 73 SCENERY CONSTRUCTION TECHNIQUES 4 Units Prerequisite: DRAM 21A, B, or C or concurrent enrollment. Three hours lecture, three hours laboratory. Principals of scenic studio fabrication in wood, fabric and related materials. Use of power tools, hand tools, pneumatic fastening tools in the cut out, layout and assembly of unframed two-dimensional and framed two- and three-dimensional scenery for theatre, film, video and related arts.

DRAM 74 THEATRE SOUND DESIGN 4 Units Prerequisite: DRAM 21A, B, or C or concurrent enrollment. Three hours lecture, three hours laboratory. A survey of sound design and technology for the theatre. Use of recording and playback equipment. Exploration of sound design as an artistic element in stage productions. Research in sound control, amplification, acoustics, preparation of sound tracks, use of reinforcement systems, and intercommunication systems.

DRAM 75 INTRODUCTION TO FASHION & COSTUME DESIGN 4 Units Advisory: DRAM 21A, 21B or 21C, or concurrent enrollment. May be taken three times for credit. Three hours lecture, two hours lecture-laboratory. An introduction to sewing techniques, pattern cutting, costume room equipment and the design and fabrication of clothing and also for costumes for the theatre and stage.

DRAM 76 INTRODUCTION TO FASHION & COSTUME DESIGN 4 Units Four hours lecture. A survey of historic fashion and costume for women and men from ancient times to the present. An introduction to the use of color, line, texture and shape in the design of fashion trends and costumes for the stage and an introduction to the use of graphic techniques in the presentation of fashion and costume designs.

DRAM 77 INTRODUCTION TO LIGHTING DESIGN & TECHNOLOGY 4 Units Prerequisite: DRAM 21A, B, or C or concurrent enrollment. May be taken three times for credit. Three hours lecture, three hours laboratory. A survey of lighting design for the theatre, film and television. An introduction to the basic elements of electrical wiring, lighting instruments, lighting control devices, and lighting special effects. Use of computer to design stage lighting. [CAN DRAM 10]

DRAM 78 THEATRE TECHNOLOGY IN STEEL & RELATED MATERIALS 4 Units Prerequisite: DRAM 21A, B, or C or concurrent enrollment. Three hours lecture, three hours laboratory. The use of steel and other related materials in the fabrication and construction of scenery for the theatre. Students use welding, cutting and brazing techniques as applied to theatrical scenery. Practical experience in the use of all types of metals and metal working tools in the construction and fabrication of stage sets for theatre film and video production.

DRAM 79 MODEL BUILDING FOR THEATRE, FILM & TELEVISION 4 Units Three hours lecture, three hours laboratory. A survey of model building techniques for the theatre, film and television. Introduction to the basic tools and materials used to construct and present preliminary and finished design models.
DRAM 80 RECORDING ARTS I: SOUND REINFORCEMENT 4 Units
Prerequisite: Not open to students with credit in MUS 80.
Two hours lecture, three hours lecture-laboratory, three hours laboratory. Introduction to fundamental concepts and techniques of mixing boards, amplifiers, microphones, signal processors and their application to both live and studio sound reinforcement. Basic introduction to computer based recording with Digidesign's Pro Tools®. Microphone placement, physics of sound as it relates to recording, sound reinforcement and studio setup techniques.

DRAM 85 DIRECTED FIELD STUDY IN THEATRE 1 Unit
DRAM 85X 2 Units
DRAM 85Y 3 Units
DRAM 85Z 4 Units
Advisory: Pass/No Pass.
Any combination of DRAM 85, 85X, 85Y, 85Z may be taken up to 24 units of credit.
One-half hour lecture, one hour lecture-laboratory for each unit of credit. In-depth, intensive field study experience in a selected major area of theatrical production, such as London or New York. Attendance at professional theatre productions; meeting with playwrights, directors, designers, choreographers, actors and critics; touring backstage facilities, costume and scenic studios, and theatrical History museums and exhibits. All costs are borne by the student.

DRAM 85X DRAMA/MUSIC FESTIVAL PRODUCTION 2 Units
DRAM 85Z 4 Units
Non-degree applicable credit course.
May be taken six times for credit.
One hour lecture, three hours laboratory for each two unit of credit. Supervised participation in management of scheduled rehearsals and performances of theatre, dance, opera and music.

DRAM 85 DRAMA SUMMER STOCK WORKSHOP 3 Units
DRAM 85X 5.5 Units
Any combination of DRAM 85 & 85X may be taken a maximum of six times for credit.
Four hours laboratory for each unit of credit. A laboratory course in Summer Stock stage production. Acting, lighting, clothing, scene design, set construction, properties, make-up will be investigated in a practical setting. Students will experience the public performance of several plays presented within a demanding schedule.

DRAM 97 ACTORS' ENSEMBLE 1 Unit
DRAM 97X 2 Units
DRAM 97Y 3 Units
DRAM 97Z 4 Units
Advisory: Pass/No Pass.
Any combination of DRAM 97, 97X, 97Y & 97Z may be taken a maximum of 24 units.
Four hours laboratory for each unit of credit.
A course in performance and/or rehearsal of varied drama forms designed for places away from the campus theatre. All aspects of theatre may be covered, including acting, lighting, clothing, scene design, set construction and make-up for the theatre. Students will prepare for staged productions for public performance in differing spaces.

DRAM 99 THEATRE WORKSHOP 3 Units
DRAM 99X 5 Units
DRAM 99Y 10 Units
Advisory: Pass/No Pass.
Any combination of DRAM 99, 99X & 99Y may be taken a maximum of 60 units.
Three hours laboratory for each unit of credit.
A laboratory course in stage production, culminating in a practical theatre production. Areas of study and investigation include acting voice and diction, movement, dance, theatre styles, stage management and stage crafts. Culminates in a full-scale production performed for a public audience.

DRAM 190 DIRECTED STUDY .5 Unit
DRAM 190X 1 Unit
DRAM 190Y 1.5 Units
DRAM 190Z 2 Units
Any combination of DRAM 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.
One-half hour lecture, three and one-half hours laboratory for each unit of credit. Directed study for students who desire or require additional help in attaining comprehension and competency in learning skills.

ECONOMICS
Business & Social Sciences Division (650) 949-7322 www.foothill.edu/bss/

ECON 1A PRINCIPLES OF ECONOMICS (MACRO) 5 Units
Advisory: Eligibility for ENGL 1A or ESL 26; MATH 101.
Five hours lecture, one hour laboratory.
Fundamental economic concepts; determination of national income and employment; income fluctuation; money and the banking system; government monetary and fiscal policies; current economic problems; economic development; international trade. ECON 1A or ECON 1B may be taken in any order. [CAN ECON 2]

ECON 1B PRINCIPLES OF MICROECONOMICS 5 Units
Advisory: Eligibility for ENGL 1A or ESL 26; MATH 101.
Five hours lecture, one hour laboratory.

ECON 9 POLITICAL ECONOMY 4 Units
Advisory: Not open to students with credit in POLI 9.
Four hours lecture.
Overview of political economy emphasizing the interplay between economics and politics in the formulation of public policy. Policy issues of current significance emphasized.

ECON 25 INTRODUCTION TO THE GLOBAL ECONOMY 4 Units
Four hours lecture.
Historical and contemporary issues in the international economic arena. Methodology and tools of macro-and micro-economics designed to increase awareness of important international economic questions and gain a deeper understanding of how the global economy works.

ECON 34 HONORS INSTITUTE SEMINAR IN ECONOMICS 1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in economics. Specific topics to be determined by the instructor.

ECON 35 DEPARTMENT HONORS PROJECTS IN ECONOMICS 1 Unit
May be taken six times for credit.
One hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

ECON 36 SPECIAL PROJECTS IN ECONOMICS 1 Unit
ECON 36X 2 Units
ECON 36Y 3 Units
ECON 36Z 4 Units
Any combination of ECON 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.
One hour lecture for each unit of credit.
Advanced readings research, and/or project in economics. Specific topics determined in consultation with instructor.
EDUC 50 PRINCIPLES OF EDUCATION: THE TEACHING CHALLENGE 4 Units
Four hours lecture.
Exploration of the professional field of education for those interested in the educational system of the United States. Particular emphasis placed upon learning to understand the educational system in California.

EDUC 100 YOU CAN TEACH ONLINE 2 Units
Non-degree applicable credit course.
Advisory: Teaching experience recommended; online teaching preferred.
Two hours lecture.
Exposes faculty to online learning pedagogy, online tools and resources, and teaching and learning strategies useful in developing online or hybrid courses. Follows step-by-step process of putting courses online. Addresses instructional design decisions, translates traditional content to online, outlines the actual mechanics of conducting an online class, and evaluates the course effectiveness.

EDUC 101 CYBER TEACHERS INSTITUTE 2 Units
Non-degree applicable credit course.
Advisory: Teaching experience recommended; online teaching experience preferred.
May be taken six times for credit.
Two hours lecture.
The Cyber Teachers Institute uses a highly stimulating format that allows faculty to interact with colleagues on online teaching issues of their choice. Based on the principle that teachers are the experts in teaching, this institute is designed to bring teachers together to learn from each other and exchange teaching innovations and solutions to online teaching problems. The Cyber Teachers Institute is ideal for dedicated educators in search of inspiration and renewal in the love of teaching.

EDUC 102 ADVANCED CYBER TEACHERS INSTITUTE 2 Units
Non-degree applicable credit course.
Advisory: Teaching experience recommended; online teaching experience preferred.
Two hours lecture.
Institute focuses on the analysis, selection, and application of methods, tools, and materials that facilitate learning in online instruction. Designed as a practicum experience, this course enables participants to identify and solve challenges in the instructional design or teaching process of their online, hybrid, or Web-enhanced course.

EDUC 103 CURRENT ISSUES IN ONLINE LEARNING 2 Units
Non-degree applicable credit course.
Advisory: Teaching experience recommended. Online teaching experience preferred.
May be taken six times for credit.
Two hours lecture.
Current issues in Online Learning, part of the Cyber Teachers’ Institute series. Focuses on deeper analysis of issues, policies, and practice that affect web-based learning such as copyright, fair use, and intellectual property. Designed as a practicum experience, this course enables participants to identify and address emerging hot topics in e-learning.

EDUC 301 INSTRUCTIONAL METHODS & MEDIA 1 Unit
EDUC 301X 2 Units
EDUC 301Y 3 Units
EDUC 301Z 4 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass.
Any combination of EDUC 301, 301X, 301Y & 301Z may be taken a maximum of six times for credit.
One hour lecture.
Analysis, selection and application of the methods, media and materials which facilitate learning in subjects commonly taught in the community college with emphasis on culturally diverse student populations; including psychology of skills and learning; motivation; professional/community resources; content preparation, presentation, evaluation.

EMTP 100A MIC PARAMEDIC PROGRAM: COGNITIVE, AFFECTIVE, PSYCHOMOTOR I 14 Units
Prerequisite: Acceptance into the Paramedic Program.
Eleven and one-half hours lecture, four and one-half hours lecture-laboratory.
Theoretical bases for preparation of candidates wishing to become EMT Paramedics. The paramedic: roles, responsibilities, education, and training, human systems and patient assessment, shock and fluid therapy, introduction to general pharmacology, and medication administration calculations.

Prerequisite: Students must either possess a current EMT-1 certificate or a certification which has been expired for no more than 24 months (must complete before the end of that month) and have a current certification in American Red Cross CPR-BLS. May be taken six times for credit.
Three hours lecture-laboratory.
This is a 36 hour course which meets the education requirements as specified by the California Emergency Medical Services Authority and the Emergency Medical Authority of Santa Clara County. It is designed for both pre-employed personnel and those persons currently employed by a fire department within the County of Santa Clara. It will be a review and update the knowledge and skills required for Basic certification.

Prerequisite: HLTH 5 or First Responder Course.
Seven hours lecture-laboratory.
This course is designed to instruct a student to the level of Emergency Medical Technician-Basic who serves as a vital link in the chain of the health care team. It is recognized that the majority of prehospital emergency medical care will be provided by the EMT-Basic. This course includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department, or other specialized service. This course is the first of two courses required to be eligible to take the California written and practical exam for certification as an Emergency Medical Technician-I.

Prerequisite: Successful completion of EMT 304 in the last six months.
Advisory: EMT 305 is part of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-I.
Seven hours lecture-laboratory, one and one-half hours clinic.
This course is the second of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-I. Designed to instruct a student to the level of Emergency Medical Technician-Basic who serves as a vital link in the chain of the health care team. It is recognized that the majority of prehospital emergency medical care will be provided by the EMT-Basic. This course includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department, ambulance, or other specialized service.

In addition, to the required hours of instruction, this course requires that the student have a minimum 10 hours of patient interactions in a clinical setting with 5 patient contacts. Also, 8 hours will be required for vehicle extraction, victim removal, and ambulance operations outside of class.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008 www.foothill.edu
EMTP 100B MIC PARAMEDIC PROGRAM: COGNITIVE, AFFECTIVE, PSYCHOMOTOR II
Prerequisite: Successful completion of EMTP 100A.
Nine and one-half hours lecture, six and one-half hours lecture-laboratory.

EMTP 100C MIC: COGNITIVE, AFFECTIVE, PSYCHOMOTOR III
Prerequisite: Successful Completion of EMTP 100B.
Seven and one-half hours lecture, eight and one-half hours lecture-laboratory.
Cognitive, affective, and psychomotor bases for preparation of candidates wishing to become Emergency Medical Technician - Paramedics. Recognition and treatment of: respiratory emergencies, major medical emergencies, special topics, and pediatrics.

EMTP 102 MIC PARAMEDIC PROGRAM:
HOSPITAL: CLINICAL EXPERIENCE
Prerequisite: Successful Completion of EMTP 100A.
May be taken four times for credit.
Sixteen hours clinic.
Hospital rotations in the following departments: emergency, pediatrics, obstetrics, surgical ward and burn units, operating room.

EMTP 103A MIC PARAMEDIC PROGRAM:
AMBULANCE FIELD INTERNSHIP
Prerequisite: Successful Completion of EMTP 102.
May be taken four times for credit.
Forty hours clinic.
Continuation of ambulance field internship. Students will continue to work under the supervision of licensed paramedics.

EMTP 103B MIC PARAMEDIC PROGRAM:
AMBULANCE FIELD INTERNSHIP
Prerequisite: Successful Completion of EMTP 103A.
May be taken four times for credit.
Forty hours clinic.
Continuation of ambulance field internship. Students will continue to work under the supervision of licensed paramedics.

EMTP 190 DIRECTED STUDY
.5 Unit
EMTP 190X 1 Unit
EMTP 190Y 1.5 Units
EMTP 190Z 2 Units
Advisory: Pass/No Pass.
Any combination of EMTP 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.
Three and one-half hours laboratory, one-half hour lecture.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

ENGR 10 INTRODUCTION TO ENGINEERING
4 Units
Prerequisite: MATH 101.
Advisory: ENGL 110 or ESL 25.
Three hours lecture, three hours laboratory.
An introduction to engineering and the engineering professions to include exposure to engineering project development, the use of computer tools, experimentation, data analysis, and presentation.

ENGR 37 ENGINEERING DESCRIPTIVE GEOMETRY
3 Units
Prerequisite: ENGR 6, or one year of high school drafting.
Advisory: Designed for engineering transfer majors.
Two hours lecture, three hours laboratory.
Theory of orthographic projection and its application to graphical solution of the more advanced three-dimensional space problems. Investigation of relationships between points, lines, planes and solids. Application to engineering practice.

ENGR 20 ENGINEERING DESCRIPTIVE GEOMETRY
3 Units
Prerequisite: ENGR 6, or one year of high school drafting.
Advisory: Designed for engineering transfer majors.
Two hours lecture, three hours laboratory.
Theory of orthographic projection and its application to graphical solution of the more advanced three-dimensional space problems. Investigation of relationships between points, lines, planes and solids. Application to engineering practice.

ENGR 34 HONORS INSTITUTE SEMINAR IN ENGINEERING
1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in engineering. Specific topics to be determined by the instructor.

ENGR 36 SPECIAL PROJECTS IN ENGINEERING
1 Unit
Prerequisite: MATH 1B, PHYS 4A.

ENGR 36X & TECHNOLOGY (HONORS)
2 Units
ENGR 36Y 3 Units
Advisory: Previous experience in engineering.
Any combination of ENGR 36, 36X & 36Y may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
For the exceptional student. The student designs, assembles, and evaluates a project appropriate to his major and writes a report covering the theory or background for the project, its design and construction, and its application. The student is encouraged to work with a minimum of direct supervision.

ENGR 37 INTRODUCTION TO CIRCUIT ANALYSIS
5 Units
Prerequisite: MATH 1B, PHYS 4B.
Five hours lecture.
The analysis of lumped, linear circuits, natural and forced circuit response. [CAN ENGR 12, CAN ENGR 6 = ENGR 37+37L]

ENGR 37L CIRCUIT ANALYSIS LABORATORY
2 Units
Corequisite: ENGR 37.
One hour lecture, three hours laboratory.
Practical verification of theorems and concepts learned in ENGR 37 (Circuit Analysis) through experimentation. Included will be experiments in DC and AC circuits involving the utilization of a variety of instruments such as DC/AC meters, regulated power supplies, signal generators, oscilloscopes and frequency counters. [CAN ENGR 6 = ENGR 37+37L]

ENGR 38 SEMICONDUCTOR DEVICES & CIRCUITS
5 Units
Prerequisites: ENGR 37.
Five hours lecture, one-hour lab lecture, two hours laboratory.
Fundamental semiconductor theory, device's materials and design. Introduction to the operation of several semiconductor devices, analysis of analog and digital circuits using solid-state devices, including circuits with diodes, transistors, operational amplifiers, small signal equivalent circuits, CMOS logic gates, and introduction of logic circuits.

ENGR 45 PROPERTIES OF MATERIALS
4 Units
Prerequisite: CHEM 1B, MATH 1C, PHYS 4B (may be taken concurrently).
Three hours lecture, three hours laboratory.
Properties of engineering materials related to basic structure; applications to the selection and use of engineering materials. [CAN ENGR 4]
ENGR 49  ENGINEERING PROFESSION  1 Unit
One hour lecture.
A study of the engineering profession, its requirements, opportunities and responsibilities. A review of the applications of basic science to engineering problems. Review of engineering case studies.

ENGR 76  INTRODUCTION TO NANOTECHNOLOGY  5 Units
Prerequisite: CHEM 30A or equivalent, PHYS 10 or equivalent, and BIOL 10 or equivalent.
Advisory: College-level chemistry or equivalent.
Five hours lecture.
Introduction to the underlying principles and applications of the emerging field of nanotechnology. Intended for a multidisciplinary audience with a variety of backgrounds. Introduces scientific principles and theory relevant at the nanoscale dimension. Discusses current and future nanotechnology applications in engineering and materials, physics, chemistry, biology, electronics and computing, and medicine.

ENGR 101  BASIC SKILLS IN THE WORKPLACE  2 Units
One hour lecture, two hours lecture-laboratory.
Designed for students to acquire basic workplace skills, including interpersonal communication, understanding the roles of various professions in the workplace, problem solving and computer usage. Students will apply their skills by completing a project.

ENGLISH
Language Arts Division  
www.foothill.edu/la/

ENGL 1A  COMPOSITION & READING  5 Units
Prerequisite: Eligibility based on appropriate assessment information or successful completion of assigned courses in basic reading and writing skills.
Five hours lecture, one hour laboratory.
The techniques and practice of expository and argumentative writing based on critical reading and thinking about texts. Reading focused primarily on works of non-fiction prose, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Fulfills the Foothill College reading and composition requirement for the AA/AS degree and the university-transfer general education requirement in English reading and written composition. Open laboratory can be accessed to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. [CAN ENGL 2, CAN ENGL SEQ A = ENGL 1A+1B]

ENGL 1AH  COMPOSITION & READING-HONORS  5 Units
Prerequisite: Eligibility based on appropriate assessment information.
Five hours lecture, one hour laboratory.
The techniques and practice of expository and argumentative writing based on critical reading and thinking about texts. Reading focused primarily on works of non-fiction prose, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Fulfills the Foothill College reading and composition requirement for the AA/AS degree and the university-transfer general education requirement in English reading and written composition. Open laboratory can be accessed to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. Honors section offers rigorous preparation in analytic reading and writing skills for students intending to transfer to a four-year college or university. Course expands and enhances the student’s ability to write with fluency, effectiveness, and intellectual rigor.

ENGL 1B  COMPOSITION, CRITICAL READING & THINKING-HONORS  5 Units
Prerequisite: ENGL 1A or 1AH.
Five hours lecture, one hour laboratory.
Further development in the technique and practice of expository and argumentative writing, critical reading and thinking. Readings chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Formal instruction in composition and critical thinking. Open laboratory can be accessed to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. [CAN ENGL 4, CAN ENGL SEQ A = ENGL 1A+1B]

ENGL 1BH  COMPOSITION, CRITICAL READING, & THINKING-HONORS  5 Units
Prerequisite: ENGL 1A or 1AH.
Not repeatable.
Five hours lecture, one hour laboratory.
Further development in the technique and practice of expository and argumentative writing, critical reading and thinking. Readings chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Formal instruction in composition and critical thinking. Open laboratory can be access to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. Honors section offers a challenging intellectual environment for students intending to transfer to a four-year college or university. Class discussion and assignments focus on literature as a reflection of multiple perspectives, social constructs, and cultural values. Course fosters an understanding and appreciation of various literary genres and includes logic and literary theory. Emphasis on rhetorical strategies and realistic refinements for effective persuasive writing. Enrichment activities include attendance at plays, author readings, public lectures, and independent or collaborative study on a contemporary author.

ENGL 1C  ADVANCED COMPOSITION  4 Units
Formerly: ENGL 2
Prerequisite: ENGL 1A or 1AH.
Four hours lecture, one hour laboratory.
Advanced study and practice of expository and argumentative writing. Focus is on reading and writing assignments from across the disciplines to further improve and refine reading, grammar, composition, and critical thinking skills. Offered Spring Quarters. Open laboratory can be access to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course.

ENGL 1CH  ADVANCED COMPOSITION-HONORS  4 Units
Prerequisite: ENGL 1A or 1AH.
Four hours lecture, one hour laboratory.
Advanced study and practice of expository and argumentative writing. Focus on reading and writing assignments from across the disciplines to refine critical reading, rhetoric, writing style, and critical thinking skills. Offered Spring Quarters. Open laboratory can be access to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. Honors section is intensive in content, involving both writing and meta-analysis of complex texts. Includes collaborative evaluations of the content, evidence, organizing principles and style of a variety of texts. Course encourages students to examine assumptions, implications and unintended consequences of rhetorical and content choices. Includes focus on primary sources and the interpretations of these documents in contemporaneous writing. Course expands and enhances the student’s ability to write with fluency, effectiveness, and intellectual rigor.

ENGL 1D  TECHNICAL WRITING  5 Units
Prerequisite: ENGL 1A, 1AH or ESL 26.
Five hours lecture.
Preparation of written texts for proposals, presentations, reports, user manuals, handbooks, newsletters, grants and applications, memos, brochures, email, and Internet Web sites. Emphasis on clear, concise language and visual document design. Logical organization and awareness of audience, purpose and process. Effective integration of text, graphics, charts, photos and illustrations.

ENGL 4  JOURNALISM  4 Units
Prerequisite: ENGL 1A, 1AH or ESL 26.
Four hours lecture.
Introduction to fundamental techniques of contemporary journalism in the information age. Emphasis on clear, accurate, concise writing. Awareness of purpose, process and audience expectations. Journalistic ethics. Practice in drafting, organizing, editing and revising for publication. [CAN JOUR 2]

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
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ENGL 5  GAY & LESBIAN LITERATURE  4 Units
Advisory: Eligibility for ENGL 1A.
Four hours lecture.
Introduction to the History and development of gay and lesbian literature as a 
continuous theme in the development of mainstream literary traditions and, more 
recently, as a separate and distinct literary genre. Readings selected to represent 
a variety of historical periods and contrasting societal attitudes toward same-sex 
relationships, ranging from ancient Greek and Roman texts to contemporary 
American poetry, fiction, drama, and non-fiction prose. Emphasis on the emergence 
of contemporary gay/lesbian literatures and identities in the United States in the 
twentieth century within the broader context of on-going class, race, gender, 
religious, political, and aesthetic debates. Offered Fall Quarters.

ENGL 7  NATIVE AMERICAN LITERATURE  4 Units
Advisory: Eligibility for ENGL 1A.
Four hours lecture.
Introduction to the History, development, and diversity of Native American literatures 
from pre-contact civilizations to present-day tribal cultures. Readings in traditional 
creation myths, songs, and stories from a variety of tribal cultures; nineteenth and 
twentieth century autobiographical narratives; and significant works of fiction, poetry, 
and non-fiction prose by contemporary Native American authors. Emphasis on 
the specific religious, linguistic, historical, political and cultural context of Native 
American literary achievements. Offered Winter Quarters (rotated with ENGL 40)

ENGL 8  CHILDREN’S LITERATURE  4 Units
Advisory: Eligibility for ENGL 1A.
Four hours lecture.
A survey of children’s literature from many periods and cultures, including classics, 
picture books, folktales, fairy tales, biography, poetry, fantasy and fiction. Emphasis 
on the ideas, didactic and sociological, reflecting relationships among cultures in 
America included in books usually read by children. Special emphasis on books 
that explore the cross-cultural influences of our shared oral tradition and folklore 
as well as the issues arising from a diverse mix of cultures in the U.S. Offered 
Fall and Spring Quarters.

ENGL 11  INTRODUCTION TO POETRY  4 Units
Prerequisite: Eligibility for ENGL 1A.
Four hours lecture.
Analysis and discussion of forms, techniques and meanings of poetry, with emphasis 
on modern examples in English or translation to develop the student’s ability to 
read, understand, and evaluate a poem. Offered Winter Quarters. [CAN ENGL 20]

ENGL 12  AFRICAN AMERICAN LITERATURE  4 Units
Advisory: Eligibility for ENGL 1A.
Four hours lecture.
Liturature by African Americans beginning in slavery and continuing on into the 
20th and 21st centuries. Discovery of many of the current stereotypes in American 
cultural mythology about African Americans. Study of the complex and varying 
forms of resistance and creation African Americans have developed. Definition of 
issues and strategies in writings from the 19th, 20th and 21st centuries, including 
audience, identity (self), gender, family, culture, politics, spirituality and language. 
Offered Winter Quarters.

ENGL 14  INTRODUCTION TO CONTEMPORARY FICTION  4 Units
Prerequisite: Eligibility for ENGL 1A.
Four hours lecture.
Selected fiction written between 1950 and the present, with emphasis on English, 
Canadian, and international works in translation. Students are introduced to 
various thematic and stylistic trends in contemporary fiction; use of current 
scientific discoveries, historical theories, religious and cultural developments. 
Offered Fall Quarters.

ENGL 17  INTRODUCTION TO SHAKESPEARE  4 Units
Prerequisite: Eligibility for ENGL 1A.
Four hours lecture.
Detailed analysis of representative sonnets, and History, tragedy, comedy, and 
romance dramas through lecture and discussion. Consideration of the Elizabethan 
world. Offered Spring Quarters.

ENGL 22  WOMEN WRITERS  4 Units
Advisory: Eligibility for ENGL 1A.
Four hours lecture.
An examination of the works of 19th and 20th Century multicultural women poets, 
novelists, dramatists, and essayists and their contribution to English and American 
literature. Includes independent research and the creation of a major project on 
author, genre, work or theme. Offered Spring Quarters.

ENGL 23  MODERN ENGLISH: FUNCTION & GRAMMAR  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in LING 23.
Four hours lecture.
Introduction to basic linguistic concepts in describing the functions and grammar of 
present-day English. Focus on grammatical features of standard American English, 
Black English, and other English varieties as they function in the diverse types 
of communication between Americans, as well as in global interaction. Analysis 
of modern English relevant for those interested in refining their English, students 
of ESL and foreign languages, and prospective writers and language teachers. 
Offered Winter Quarters.

ENGL 25  INTRODUCTION TO DESCRIPTIVE & HISTORICAL LINGUISTICS  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in ENGL 25H, LING 25 or LING 25H.
Four hours lecture.
Introduction to linguistic concepts in the study of structure, pattern, meaning, and 
change in language, with emphasis on British and American English. Introduction 
to historical linguistic theory and methods as applied to investigation of origin and 
development of spoken and written language, with focus on British, Standard 
American, and Black American English. Offered Fall Quarters.

ENGL 25H  INTRODUCTION TO DESCRIPTIVE & HISTORICAL LINGUISTICS-HONORS  4 Units
Prerequisites: Eligibility for ENGL 1A.
Advisories: Not open to students with credit in ENGL 25, LING 25 or LING 25H.
Four hours lecture.
Introduction to linguistic concepts in the study of structure, pattern, meaning, and 
change in language, with emphasis on British and American English. Introduction 
to historical linguistic theory and methods as applied to investigation of origin and 
development of spoken and written language. Honors section offers rigorous 
preparation in linguistic studies for students intending to transfer to a four-year 
college or university. Two research or fieldwork projects are required.

ENGL 26  LANGUAGE, MIND & SOCIETY  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in LING 26.
Four hours lecture.
Introduction to methods of linguistic analysis and basic concepts in psycholinguistics 
and sociolinguistics. Topics include function of the brain in language acquisition and 
language loss by mono/bilingual children and adults; role of language in society; 
language variability in diverse ethnic groups of speakers and diverse social uses; 
education and language planning. Offered Spring Quarters.

ENGL 30  SPECIAL TOPICS IN ENGLISH  4 Units
Advisory: Eligibility for ENGL 1A.
May be taken two times for credit.
Four hours lecture.
Intensive study of selected special topics in language and literature. Subjects vary 
from quarter to quarter. Consult current schedule for exact title.

ENGL 31  CHICANO LITERATURE  4 Units
Advisory: Eligibility for ENGL 1A.
Four hours lecture.
Reading and discussion of Chicano literature and its relationship to social issues and 
conflicts of Chicanos. Critical examination of fiction, poetry, essays, and drama 
by and about Mexican Americans. Offered Spring Quarters (rotated with ENGL 41).
ENGL 34  HONORS INSTITUTE SEMINAR IN ENGLISH  1 Unit
Prerequisite: Membership in the Honors Institute.
May be taken three times for credit.
One hour lecture.
A seminar in directed readings, discussions, and projects in English. Specific topics to be determined by the instructor.

ENGL 35  SEMINARS IN ENGLISH  1 Unit
ENGL 36X  2 Units
ENGL 36Y  3 Units
ENGL 36Z  4 Units
Advisory: ENGL 1A.
Any combination of ENGL 35, 36X, 35Y & 35Z may be taken a maximum of six times for credit.
One hour lecture for each unit of credit.
A small group seminar of advanced literary research and critical techniques. Discussions and individual writing projects under instructor supervision. Specific topics will vary. Cannot be substituted for any department requirements.

ENGL 36  INDIVIDUAL PROJECTS IN ENGLISH  1 Unit
ENGL 36X  2 Units
ENGL 36Y  3 Units
ENGL 36Z  4 Units
Advisory: Eligibility for ENGL 1A.
Any combination of ENGL 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.
One hour lecture for each unit of credit.
Individual research on advanced subject area in English. Conferences and individual readings, writing assignments, and/or projects under instructor supervision. Specific topics will vary. Cannot be substituted for any department requirements.

ENGL 40  ASIAN AMERICAN LITERATURE  4 Units
Advisory: Eligibility for ENGL 1A.
Four hours lecture.
Introduction to Asian American literature. Readings in 20th Century works, with an emphasis on three relevant themes: problems of identity as they relate to class, gender, mixed heritages, and sexuality; politics and the History of Asian American activism and resistance; and diversity of cultures within the Asian American community.

ENGL 41  LITERATURE OF MULTICULTURAL AMERICA  4 Units
Prerequisite: Eligibility for ENGL 1A.
Four hours lecture.
An exploration of American identity, focusing on ethnic, cultural, and national affiliations. Analysis of literary works by Native American, European American, African American, Chicano/Latino, and Asian American writers. Readings selected represent a variety of historical periods and literary genres. Emphasis on issues of assimilation, acculturation, and cultural pluralism as expressed through diverse voices. Offered Spring Quarters (rotated with ENGL 31).

ENGL 42A  INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in DRAM 2A.
Four hours lecture.
Analysis of representative masterpieces of dramatic literature from Aeschylus through the Renaissance Period and including Asian Theatre.

ENGL 42B  INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in DRAM 2B.
Four hours lecture.
Analysis of representative masterpieces of dramatic literature from the Elizabethan Period to the end of the 19th Century.

ENGL 42C  INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in DRAM 2C.
Four hours lecture.
Analysis of representative masterpieces of dramatic literature from the beginning of the 20th Century to the present.

ENGL 46A  SURVEY OF ENGLISH LITERATURE  4 Units
Prerequisite: ENGL 1A or ESL 26.
Four hours lecture.
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds from Beowulf through Shakespeare, the Metaphysical Poets, and Milton. Offered Fall Quarters. [CAN ENGL B = ENGL 46A+46B, CAN ENGL SEQ B = ENGL 46A+46B+46C]

ENGL 46B  SURVEY OF ENGLISH LITERATURE  4 Units
Prerequisite: ENGL 1A or ESL 26.
Four hours lecture.
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds, from the Victorian Period to the Present. Offered Winter Quarters. [CAN ENGL B = ENGL 46A+46B, CAN ENGL SEQ B = ENGL 46A+46B+46C, CAN ENGL 10 = ENGL 46B+46C]

ENGL 46C  SURVEY OF ENGLISH LITERATURE  4 Units
Prerequisite: ENGL 1A or ESL 26.
Four hours lecture.
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds, from Romantic, Victorian and Modern writers. Offered Spring Quarters. [CAN ENGL 10 = ENGL 46B+46C, CAN ENGL SEQ B = ENGL 46A+46B+46C]

ENGL 46A  SURVEY OF EARLY AMERICAN LITERATURE 1492-1864  4 Units
Prerequisite: ENGL 1A or 1AH.
Four hours lecture.
Representative works of American literature from Columbus's first voyage in 1492 through the Civil War, focusing on the development of entirely new literary forms, voices, and perspectives which make American literature unique. Selections from Native American myths, legends, and autobiographies; reports of early Spanish explorers; English colonial histories and Puritan poetry; African American slave narratives and poems; Revolutionary War political texts; frontier tall tales; transcendentalist philosophy; gothic short stories; and romantic fiction. Special emphasis on the contributions of diverse cultures in forging American literature and identity. Offered Fall Quarters.

ENGL 46B  AMERICAN LITERATURE IN THE GILDED AGE: 1865–1914  4 Units
Prerequisite: ENGL 1A or 1AH.
Four hours lecture.
Introduction to representative works of multicultural American Literature in the wake of the Civil War (1865-1914) including satirical works by Mark Twain; the experimental poetry of Walt Whitman and Emily Dickinson; autobiographical and political texts by African American leaders Booker T. Washington and W.E.B. DuBois; Mexican vaquero fiction; early Asian American texts; and Native American autobiographies. Emphasis on the radical innovations in literary forms, themes, language, and philosophy which shaped America's new identity as an emerging world power within a period of fierce conflicts within American society over race, class, and gender roles. Offered Winter Quarters.

ENGL 46C  MODERN AMERICAN LITERATURE (1914–Present)  4 Units
Prerequisite: ENGL 1A or 1AH.
Four hours lecture.
Introduction to multicultural American Literature in the Modern Age (1914–present) with emphasis on the courageous contributions and literary innovations of diverse authors of Asian American, African American, Anglo American, Latino American, and Native American heritage, including Harlem Renaissance authors such as Hughes and Hurston; the radically experimental fiction of Hemingway, Fitzgerald, and Faulkner; the rise of modernist poets such as Eliot, Stevens, and Williams; Beat Generation authors such as Kerouac and Ginsberg; Native American authors such as Momaday and Erdrich; feminist poets such as Plath and Rich; and Asian American writers such as Bulosan and Hong Kingston. Special emphasis on the role of these diverse writers in continuously redefining the nature of American literature in the 20th Century, and thereby reshaping American national identity as the United States becomes a global superpower. Offered Spring Quarters.
ENGL 51A STUDENT SUCCESS IN THE ENGLISH CLASSROOM

May be taken twice for credit.
Two hours lecture.
Exploration of essential skills and strategies for use in the English classroom and beyond. Development of self-management tools to achieve academic goals and success. Extensive practice in reading and connecting logic of reasoning to evidence. Critical analysis of communication strategies, including speaking and writing skills which support the successful completion of English assignments. Hands-on, experiential strategies to develop greater self-awareness and writing clarity, specificity, depth, and confidence.

ENGL 51B STUDENT SUCCESS IN THE ENGLISH CLASSROOM

May be taken twice for credit.
Two hours lecture.
Exploration of essential skills and strategies for use in the English classroom and beyond. Development of self-management tools to achieve academic goals and success. Extensive practice in reading and connecting logic of reasoning to evidence. Critical analysis of communication strategies, including speaking and writing skills which support the successful completion of English assignments. Hands-on, experiential strategies to develop greater self-awareness and writing clarity, specificity, depth, and confidence.

ENGL 54 PROFESSIONAL WRITING SKILLS

Prerequisites: Eligibility for ENGL 1A.
Four hours lecture.
Instruction in professional writing skills, small group and/or individualized internet course; covers eight complex sentence patterns, along with grammatical background and punctuation rules; conciseness in writing; and style and voice for professional writers. Skills applied to writing projects for both college courses and the workplace. Offered Winter Quarters.

ENGL 80 INTRODUCTION TO TRAVEL WRITING

Advisory: Eligibility for ENGL 1A.
Four hours lecture.
Techniques and practice of advanced expository writing techniques with a focus on travel writing including narrative structures, reportage and ethnography. Formal instruction in critical thinking and focused reflection on travel experiences. Includes discussion on a broad spectrum of ideas and cultural experiences including publication markets.

ENGL 97A–H SHAKESPEARE FIELD TRIP

Advisory: Eligibility for ENGL 1A.
Two hours lecture, two hours lecture-laboratory.
Lectures and discussions of selected plays and field trips to rehearsals and performances of the plays (e.g., annual Oregon Shakespearean Festival). All costs are borne by the student.

ENGL 100 INTRODUCTION TO COLLEGE READING

Advisory: Not open to students with credit in ENGL 108.
Five hours lecture, one hour laboratory.
Techniques of critical analysis for reading-college level prose, focusing primarily on expository/argumentative essays and textbook materials. Students learn to comprehend text holistically, identifying and expressing critical elements of comprehension. Practice and testing to be done on authentic text of one or more pages. Lecture, discussion, group work, and individualized instruction. Students who do not meet all of the expected outcomes of this course may be assigned a grade and units of credit in ENGL 205 and should repeat ENGL 104A or ENGL 100/110 sequence.

ENGL 104A NARRATIVE READING & WRITING: PUENTE

Advisory: Not open to students with credit in ENGL 108 or 100
Five hours lecture.
Introduction to short narrative forms of college-level reading and writing: (auto)biography, narrative reporting, story-telling, interviews, summary, testimonials. Materials used to be theme-based from Latino/Mexican American authors. Narrative structure used to teach the fundamentals of analytical reading and writing. Lecture, discussion, group work, and individualized instruction. Students who do not meet all of the expected outcomes of this course may be assigned a grade and units of credit in ENGL 205 and should repeat ENGL 104A or ENGL 100/110 sequence.
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>ESL 25 COMPOSITION &amp; READING</td>
<td>5</td>
<td>Prerequisite: Appropriate placement test score or a grade of “C” or better in ESL 166 and 167. Designed for students whose native language is not English. Advisory: Successful completion of, or concurrent enrollment in, ESL 165. Concurrent enrollment in ESL 176 and/or 177 strongly recommended. Five hours lecture, one hour laboratory. Development of critical reading skills using selected readings which present a range of cultural experiences and perspectives. Practice in writing expository essays based on personal experience, observations, and class readings with a review of acceptable English sentence structure. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Does not fulfill the composition requirements for the A.A. degree.</td>
</tr>
<tr>
<td>ESL 26 ADVANCED COMPOSITION &amp; READING</td>
<td>5</td>
<td>Prerequisite: Appropriate placement test score or a grade of C or better in ESL 25. Designed for students whose native language is not English. Advisory: Successful completion of, or concurrent enrollment in, ESL 165. Concurrent enrollment in ESL 176 and/or 177 strongly recommended. Five hours lecture, one hour laboratory. The techniques and practice of expository and argumentative writing based on critical reading and thinking. Reading focused on essays and articles, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences and perspectives. Research paper synthesizing information from a range of current sources to form a persuasive argument. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Fulfills the composition requirement for the A.A. degree.</td>
</tr>
<tr>
<td>ESL 134 FUNDAMENTALS OF ENGLISH</td>
<td>10</td>
<td>Advisory: Designed for students whose native language is not English. Concurrent enrollment in ESL 137. Ten hours lecture, two hours laboratory. A basic English course for non-native speakers focusing on basic grammatical structures, vocabulary development, listening, speaking, and writing. Computer lab work to reinforce structures. Emphasis on practical understanding and everyday communication in spoken and written contexts.</td>
</tr>
<tr>
<td>ESL 136 BASIC GRAMMAR FOR COMMUNICATION</td>
<td>5</td>
<td>Advisory: Designed for students whose native language is not English. Concurrent enrollment in ESL 137. Five hours lecture, one hour laboratory. A basic English course for non-native speakers focusing on comprehension, communication and grammatical accuracy. Emphasis on practical understanding and everyday communication in spoken and written contexts. Computer or workbook activities to reinforce knowledge of structures.</td>
</tr>
</tbody>
</table>
ESL 157  HIGH-INTERMEDIATE READING SKILLS  5 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 146 and ESL 147.
Advisory: Concurrent enrollment in ESL 156. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.
Continuation of ESL 147. An upper intermediate-level reading course focusing on higher level comprehension skills and strategies for dealing with pre-college-level reading. Computer and/or workbook activities to reinforce knowledge of material and skills.

ESL 158  DEVELOPING LANGUAGE SKILLS  10 Units
Prerequisite: TOEFL score of 475 to 499. Restricted to international students whose native language is not English.
Ten hours lecture.
A high intermediate/low-advanced course in Grammar, Writing, Reading, and Speaking for international students who are about to enter a college academic program. Designed to improve students language skills.

ESL 165  LISTENING/SPEAKING FOR ACADEMIC PURPOSES  5 Units
Prerequisite: Successful completion of ESL 156 and 157. Appropriate placement test score or successful completion of ESL 155.
Advisory: Designed for students whose native language is not English.
Five hours lecture.
A listening/speaking course focusing on preparing students for listening to authentic lectures and classroom discussions. Practice with classroom interactive discussion and presentation skills. Pronunciation work to develop intelligible speech and ability to comprehend naturally spoken English in academic contexts. Level appropriate reading and writing tasks in connection with these activities.

ESL 166  ADVANCED GRAMMAR  5 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 156 and ESL 157.
Advisory: Concurrent enrollment in ESL 167 recommended. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.
Continuation of ESL 156. An advanced English course for non-native speakers focusing on comprehension, communication and grammatical accuracy. Emphasis on understanding and communication of abstract ideas as well as concrete new information in spoken and written contexts. Computer or workbook activities to reinforce knowledge of structures.

ESL 167  BASIC COMPOSITION SKILLS  5 Units
Prerequisite: Appropriate placement test score or a grade of C or better in ESL 156 and 157, or ESL 154 and a grade of C or better or concurrent enrollment ESL 166. Designed for students whose native language is not English.
Not repeatable
Five hours lecture, one hour laboratory.
A basic course for non-native speakers focusing on techniques of college writing, emphasizing clear prose, lecture, discussion, and individualized instruction. Emphasis on the production of short compositions containing well-developed paragraphs and a variety of standard English sentences. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Does not meet the graduation requirement in composition.

ESL 175  APPLIED GRAMMAR & EDITING SKILLS  3 Units
Prerequisites: Completion of ESL 166 or an appropriate score on the ESL placement test.
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ESL 25, 26, ENGL 110, 1A or 1B.
May be taken two times for credit.
Three hours lecture.
Identify and edit for patterns of grammatical errors in original writing Develop individual error profile. Address pertinent grammar issues through review of grammatical rules, various grammar exercises, and editing of sample papers and original work.

ESL 177  ADVANCED VOCABULARY DEVELOPMENT FOR READING & WRITING  3 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 166 and 167.
Advisory: Designed for students whose native language is not English. May be taken two times for credit.
Three hours lecture.
Expansion of academic vocabulary to meet the specific vocabulary needs for students in an academic setting. Multiple exposures to target words in meaningful contexts and rich information about each word. May be repeated one time as course content changes.

ESL 186  ADVANCED GRAMMAR REVIEW  3 Units
Prerequisite: Successful completion of ESL 166 or an appropriate score on the ESL Placement Test.
Three hours lecture.
A review of essential grammar for academic writing designed for nonnative speakers of English. This course is delivered entirely online.

ESL 225  ALTERNATE CREDIT: COMPOSITION & READING  5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken two times for credit.
Five hours lecture, one hour laboratory.
Course is designed to allow students enrolled in ESL 25 to receive credit for mastery of some but not all of the outcomes of ESL 25. Students are required to attend the ESL 25 course, turn in all work, and participate in the other tasks of the class. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Does not meet the Foothill College composition requirements for the A.A. degree.

ESL 226  ALTERNATE CREDIT: ADVANCED READING & COMPOSITION  5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken two times for credit.
Five hours lecture, one hour laboratory.
Course is designed to allow students enrolled in ESL 26 to receive credit for mastery of some but not all of the outcomes of ESL 26. Students are required to attend the ESL 26 course, turn in all work, and participate in the other tasks of the class. Open laboratory for feedback on essays and individualized assistance with specific writing problems.

ESL 234  ALTERNATE CREDIT: FUNDAMENTALS OF ENGLISH  10 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken two times for credit.
Ten hours lecture, two hours laboratory.
Course is designed to allow students enrolled in ESL 134 to receive credit for mastery of some but not all of the outcomes of ESL 134. Students are required to attend the ESL 134 course, turn in all work, and participate in the other tasks of the class. Computer lab work to reinforce structures.

ESL 236  ALTERNATIVE CREDIT: BASIC GRAMMAR FOR COMMUNICATION  5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken two times for credit.
Five hours lecture, one hour laboratory.
Course is designed to allow students enrolled in ESL 136 to receive credit for mastery of some but not all of the outcomes of ESL 136. Students are required to attend the ESL 136 course, turn in all work, and participate in the other tasks of the class. Computer lab to reinforce structures.

ESL 237  ALTERNATIVE CREDIT: BASIC READING & WRITING SKILLS  5 Units
Advisory: Pass/No Pass
May be taken two times for credit.
Five hours lecture, one hour laboratory.
Course is designed to allow students enrolled in ESL 137 to receive credit for mastery of some but not all of the outcomes of ESL 137. Students are required to attend the ESL 137 course, turn in all work, and participate in the other tasks of the class. Library and lab work for extensive reading and vocabulary development.
ESL 245  ALTERNATE CREDIT: ORAL COMMUNICATION SKILLS I  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture. Course is designed to allow students enrolled in ESL 145 to receive credit for mastery of some but not all of the outcomes of ESL 145. Students are required to attend the ESL 145 course, turn in all work, and participate in the other tasks of the class.

ESL 246  ALTERNATE CREDIT: INTERMEDIATE GRAMMAR FOR COMMUNICATION  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture, one hour laboratory. Course is designed to allow students enrolled in ESL 146 to receive credit for mastery of some but not all of the outcomes of ESL 146. Students are required to attend the ESL 146 course, turn in all work, and participate in the other tasks of the class. Computer and workbook activities to reinforce knowledge of structures.

ESL 247  ALTERNATE CREDIT: INTERMEDIATE READING SKILLS  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture, one hour laboratory. Course is designed to allow students enrolled in ESL 147 to receive credit for mastery of some but not all of the outcomes of ESL 147. Students are required to attend the ESL 147 course, turn in all work, and participate in the other tasks of the class. Library and lab work for extensive reading and vocabulary development.

ESL 255  ALTERNATE CREDIT: DEVELOPING LISTENING/SPEAKING SKILLS  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Course is designed to allow students enrolled in ESL 155 to receive credit for mastery of some but not all of the outcomes of ESL 155. Students are required to attend the ESL 155 course, turn in all work, and participate in the other tasks of the class.

ESL 256  ALTERNATE CREDIT: HIGH-INTERMEDIATE GRAMMAR  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture. Course is designed to allow students enrolled in ESL 156 to receive credit for mastery of some but not all of the outcomes of ESL 156. Students are required to attend the ESL 156 course, turn in all work, and participate in the other tasks of the class.

ESL 257  ALTERNATE CREDIT: HIGH-INTERMEDIATE READING SKILLS  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Course is designed to allow students enrolled in ESL 157 to receive credit for mastery of some but not all of the outcomes of ESL 157. Students are required to attend the ESL 157 course, turn in all work, and participate in the other tasks of the class. Library and lab work for extensive reading and vocabulary development.

ESL 265  ALTERNATE CREDIT: LISTENING/ SPEAKING FOR ACADEMIC PURPOSES  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture. Course is designed to allow students enrolled in ESL 165 to receive credit for mastery of some but not all of the outcomes of ESL 165. Students are required to attend the ESL 165 course, turn in all work, and participate in the other tasks of the class.

ESL 266  ALTERNATIVE CREDIT: ADVANCED GRAMMAR  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture. Course is designed to allow students enrolled in ESL 166 to receive credit for mastery of some but not all of the outcomes of ESL 166. Students are required to attend the ESL 166 course, turn in all work, and participate in the other tasks of the class.

ESL 276  ALTERNATIVE CREDIT: APPLIED GRAMMAR & EDITING SKILLS  
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Three hours lecture. Course is designed to allow students enrolled in ESL 176 to receive credit for mastery of some but not all of the outcomes of ESL 176. Students are required to attend the ESL 176 course, turn in all work, and participate in the other tasks of the class. Expansion of academic vocabulary to meet the specific vocabulary needs for students in an academic setting. Multiple exposures to target words in meaningful contexts and rich information about each word. May be repeated one time as course content changes.
HORT 51B PLANT MATERIALS II 3 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.
Identification, taxonomy, habits of growth, cultural and environmental requirements of woody plants grown in California. Emphasis on the use and maintenance of deciduous trees and shrubs in the landscape. Plants are observed in lab, on campus, and at off-site locations.

HORT 51C PLANT MATERIALS: ANNUALS 2 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.
Identification, taxonomy, habits of growth, cultural and environmental requirements of annual plants grown in California. Emphasis on the use and maintenance of herbaceous annual plants with significant features such as flower and foliage displays. Plants are observed in lab, on campus, and at off-site locations.

HORT 51D PLANT MATERIALS: CALIFORNIA NATIVE PLANTS 2 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.
Identification, taxonomy, habits of growth, cultural and environmental requirements of plants native to California landscapes. Emphasis on a wide variety of native species including trees, shrubs, ground covers, and herbaceous plants. Plants are observed in lab, on campus, and at off-site locations.

HORT 51E PLANT MATERIALS: GROUND COVERS & VINES 2 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.
Identification, taxonomy, habits of growth, cultural and environmental requirements of woody and herbaceous ground covers and vines grown in California. Emphasis on the use and maintenance of evergreen and deciduous plants used as ground covers, vines, or espaliers in ornamental landscapes. Plants are observed in lab, on campus, and at off-site locations.

HORT 51F PLANT MATERIALS: GRASSES, BAMBOOS & PALMS 2 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.
Identification, taxonomy, habits of growth, cultural and environmental requirements of ornamental grasses, bamboos, and palms grown in California. Emphasis on the use and maintenance of these three categories of monocots, each with markedly different forms. Plants are observed in lab, on campus, and at off-site locations.

HORT 51G PLANT MATERIALS: INTERIOR & TROPICAL PLANTS 2 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.
Identification, taxonomy, habits of growth, cultural and environmental requirements of interior and tropical plants grown in greenhouses or used in indoor residential or commercial settings. Plants are observed in lab, on campus, and at off-site locations.

HORT 51H PLANT MATERIALS: PERENNIALS 2 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.
Identification, taxonomy, habits of growth, cultural and environmental requirements of perennial plants with significant features such as flower and foliage displays. Plants are observed in lab, on campus, and at off-site locations.

HORT 51I PLANT MATERIALS: CACTI & SUCCULENTS 2 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.
Identification, taxonomy, habits of growth, cultural and environmental requirements of plants grown in California. Emphasis on the use and maintenance of cacti and succulents with significant design features and landscape uses. Plants are observed in lab, on campus, and at off-site locations.

HORT 52A HORTICULTURAL PRACTICES: SOILS 3 Units
Advisory: HORT 50A recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.
Fundamentals of soil science including examination of soil formation, physical and chemical properties of soil, relationships between soil, water and plants, and biological factors of soil. Examination of soil samples and interpretation of soil reports and surveys. Basics of plant fertility requirements and soil related topics such as composting, environmental issues, and soils in construction.

HORT 52B HORTICULTURAL PRACTICES: PLANT PROPAGATION 3 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.
Principles of plant propagation with an emphasis on techniques that are used in the nursery and greenhouse industries. Seeds, cuttings, grafting techniques, and the separation and division of specialized structures.

HORT 52C HORTICULTURE PRACTICES: PLANT INSTALLATION & MAINTENANCE 3 Units
Advisory: HORT 50A or BIOL 10 strongly recommended.
Two hours lecture, three hours laboratory.
Horticultural principles and practices for management of plants and gardens. Proper selection and maintenance of trees, shrubs, and ground covers. Preparation of planting areas and installation and post-planting care of landscape plants. Techniques for pruning of various species. Operation of equipment and tools used in gardening.

HORT 52D HORTICULTURAL PRACTICES: BIOTECHNOLOGY & MICRO-PROPAGATION 3 Units
Advisory: HORT 50A recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.
Introduction to current topics in plant propagation using modern biotechnology and micro-propagation. Topics include: 1) History of micro-propagation, 2) current trends in plant biotechnology including policy issues regarding unintended gene flow between plants, 3) principles of micro-propagation, 4) culture media and facilities, 5) preparation of culture media, and 6) techniques for micro-propagation (from seed to greenhouse).

HORT 52E HORTICULTURAL PRACTICES: GROUND COVER & NURSERY MANAGEMENT 3 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.
Commercial greenhouse and nursery management practices as related to the production and sale of plants in California. Emphasis on greenhouse and container nursery operations. Class will focus on organization, management, and production practices used in large and small-scale commercial plant production. Design of facilities and use of technology will be emphasized through use of on-campus facilities and observation of off-site operations.

HORT 52F HORTICULTURAL PRACTICES: INTERIORSCAPING 3 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.
Design, installation, and maintenance practices utilized in interior landscapes. Includes the selection, culture, and care of plants suitable for interior use and special events. Analysis of environmental factors which affect plant health, appearance, and longevity. Container and growing media selection.

HORT 52G HORTICULTURAL PRACTICES: TURFGRASS MANAGEMENT 3 Units
Two hours lecture, three hours laboratory.
Turf identification and planting techniques. Turf maintenance and management practices for golf courses, athletic fields, parks, and areas surrounding commercial buildings and private residences. Examination of soils, irrigation, weeds, diseases and pests as they pertain to turfgrass.

HORT 52H HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT 3 Units
Advisory: HORT 50A strongly recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.
HORT 54A LANDSCAPE CONSTRUCTION: GENERAL PRACTICES
Three hours lecture, three hours laboratory.
General practices of construction as applied to landscape projects. Basic tools and equipment, building materials and hardware, and installation techniques utilized in landscape construction. Focus is on handscape applications including paving, walls, decks, and fences. Review of safety practices, careers in landscape construction, and contractor licensing.

HORT 54B LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES
Two and one-half hours lecture, one and one-half hours laboratory.
Technical aspects of landscape construction projects. Landscape surveying and grading techniques, surface and subsurface hydrology, landscape drainage systems, erosion control and soil conservation, low voltage lighting, and building codes. Estimating landscape materials, construction costs, and preparation of project bids and contracts.

HORT 54C LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES
Two and one-half hours lecture, one and one-half hours laboratory.
Methods and materials utilized in the irrigation of ornamental landscapes. Selection of materials and operational theory of irrigation equipment. Installation techniques for sprinkler and drip irrigation systems. Water conservation features and maintenance of irrigation systems.

HORT 54D LANDSCAPE CONSTRUCTION: APPLIED PRACTICES
Advisory: HORT 54A strongly recommended.
One hour lecture, three hours laboratory.
The practical application of landscape construction practices to actual projects. Emphasis on field work which may include the design and construction of screens, fences, gates, benches, planter boxes, overheads, gazebos, decks, ponds or other specialized projects. Training on motorized equipment, such as tractors and backhoes used in landscape construction.

HORT 55A GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES
Three hours lecture.
Introductory survey of green industry management and business practices. Geared to people in such fields as landscape construction, nursery management, and landscape design, this course focuses on helping individuals successfully organize, manage, and/or market their agency or small business. The class utilizes both a theoretical and hands-on approach to the application of common business principles and goal setting. Overview of technology in environmental horticulture related businesses.

HORT 55B GREEN INDUSTRY MANAGEMENT: EMPLOYEE PRACTICES
Three hours lecture.
Employee management practices including the recruitment, motivation, and development of new employees. Also covered are effective customer service techniques, workplace diversity, the use of employee manuals, identifying and training new and potential managers, development of leadership skills, scheduling, and the role of the supervisor.

HORT 60A LANDSCAPE DESIGN: GRAPHIC COMMUNICATION
Three hours lecture, three hours laboratory.
An introductory survey of the basic principles of design communication, landscape graphics, and design process. Graphic mediums and tools, graphic vocabulary, graphic skills, reprographic techniques, plan reading, and presentation skill development. The application of lines, symbols, and lettering to create typical landscape drawings.

HORT 60B LANDSCAPE DESIGN: THEORY
Advisory: HORT 60A and/or drafting skills strongly recommended.
Two hours lecture, three hours laboratory.
Principles of landscape design theory. Intermediate studies in and applications of graphic communication, creative problem solving, design theory, and presentation skills. Residential site analysis and landscape design case studies.

HORT 60C LANDSCAPE DESIGN: IRRIGATION
Advisory: HORT 54C strongly recommended.
Two and one-half hours lecture, one and one-half hours laboratory.

HORT 60D LANDSCAPE DESIGN: PLANTING
Advisory: HORT 60A & 60B, or equivalent, strongly recommended.
Two hours lecture, three hours laboratory.
The use of ornamental and native plant materials to express basic design principles in the landscape. Planting design theory as it applies to the aesthetic, cultural, ecological, and functional use of plant materials in the landscape. Graphics used for presenting planting designs. Special focus on the use of plants in garden designs.

HORT 60E LANDSCAPE DESIGN: COMPUTER APPLICATIONS
Advisory: HORT 60A and a basic understanding of the operation of computers is strongly recommended.
Two hours lecture, three hours laboratory.
Introduction to the use of computer applications in landscape design. Overview of software for computer aided design and drafting (CADD), landscape visualization, plant selection, irrigation design, estimating, and green industry management. Focus on development of basic command skills utilized in landscape design software applications.

HORT 60F LANDSCAPE DESIGN: PROCESS
Advisory: HORT 60A & 60B.
Two hours lecture, three hours laboratory.
Principles of landscape design process. Application of residential site analysis, program development, and landscape design theory to one or more residential scale projects. Project planning and budgeting. Landscape designer, client, and green industry professional interactions.

HORT 80 ENVIRONMENTAL HORTICULTURE SKILLS
May be taken four times for credit.
Six hours laboratory.
An extension of classroom instruction offering students the opportunity through a combination of practical field experience, independent research, student internship, and industry related educational opportunities to explore problems and required skills in the green industry. Introduction to the extensive number of career options available.

HORT 90A CONTAINER PLANTINGS IN THE LANDSCAPE
May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.
Utilization of container plantings in both interior environments and exterior landscapes. Design theory, selection of containers, plant selection, and planting methods. Soil preparation and irrigation techniques.

HORT 90B ENVIRONMENTAL HORTICULTURE CAREERS
May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.
Exploration of career options in the green industry. Focus on how to make contacts in industry, methods for approaching job search, and development of resumes and portfolios.

HORT 90C GARDEN PONDS & WATER FEATURES
May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.
Introduction to the aesthetics of garden water features and the techniques used in their design, construction, and maintenance. Use of fish, plants, and other natural systems in garden ponds and pools.

HORT 90D HERBS: IDENTIFICATION, USE & FOLKLORE
May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.
An introductory look at the use and folklore of herbs grown for specific cultural purposes. Herbs noted for their culinary, aromatic, or medicinal properties.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
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<th>Course Code</th>
<th>Course Title</th>
<th>Unit(s)</th>
<th>Description</th>
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<tr>
<td>HORT 90E</td>
<td>Horticultural &amp; Landscape Photography</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Introduction to basic photographic equipment and techniques utilized in photographing landscapes and horticulturally related elements. Emphasis on assisting green industry professionals in photographing ornamental plants, landscape construction or business-related projects, and landscape designs.</td>
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<tr>
<td>HORT 90F</td>
<td>Landscape Design: Basic Principles</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. An overview of the basic principles of landscape design. Presents basic graphic communication concepts. Also explores the concept of master planning residential landscapes, and designing with plant material and related landscape elements.</td>
</tr>
<tr>
<td>HORT 90G</td>
<td>Landscape Design Forum</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Design topics for residential landscapes. Covers current concepts and trends in the landscape design industry through topical presentations, guest speakers, and discussion groups. Explores methods for evaluating successful landscape designs and their implementation.</td>
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<tr>
<td>HORT 90H</td>
<td>Landscape Lighting</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Basic theory, design, and installation techniques for lighting residential landscapes. The effective use of conventional and low-voltage lighting for improving landscape aesthetics and the functional use of outdoor spaces.</td>
</tr>
<tr>
<td>HORT 90I</td>
<td>Landscape Sustainability Practices</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Principles and practices utilized in the design, implementation, and maintenance of sustainable landscapes and gardens. Reviews ecological principles of sustainability for efficient energy use in the environment.</td>
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<tr>
<td>HORT 90J</td>
<td>Landscape Tools &amp; Equipment</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Introduction to landscape tools and equipment, and their safe usage. Selection, operation, and maintenance of hand and power tools. Troubleshooting of gas and electrically powered landscape tools and equipment.</td>
</tr>
<tr>
<td>HORT 90K</td>
<td>Landscaping with Edibles</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. The use of edible plants in residential landscapes. Practice and feasibility of integrating edible plants into landscape designs. Identification of ornamental plant materials which produce edible fruit, foliage, flowers or other edible parts.</td>
</tr>
<tr>
<td>HORT 90L</td>
<td>Plant Propagation: Basic Skills</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Introduction to propagation of plants by sexual and asexual methods. Seeding, cutting, grafting, division of specialized structures, and micro-propagation discussed and demonstrated. Discussions include growing media, fertilizers, hormones, and other plant supplements.</td>
</tr>
<tr>
<td>HORT 90M</td>
<td>Plant Nutrition &amp; Fertilization</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Introduction to plant nutrient requirements and methods for providing proper plant nutrition. Topics include review of basic nutrient requirements, forms of nutrients used by plants, nutrient deficiency identification, methods for delivering nutrients to plants, manufacture of fertilizers, fertilizer formulations, fertilizer delivery methods, and organic nutrient sources.</td>
</tr>
<tr>
<td>HORT 90N</td>
<td>Plant Materials: Fall Color</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Identification, taxonomy, habits of growth, cultural and environmental requirements of plants which exhibit noticeable fall color. Color characteristics include stems, foliage, flowers, and fruit. Plants are observed in lab, on campus, and at off-site locations.</td>
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<tr>
<td>HORT 90P</td>
<td>Pruning: Basic Skills</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Methods of pruning deciduous and evergreen plant materials. Emphasis on pruning common landscape plants, fruit trees, and roses. Selection of suitable pruning tools, techniques for pruning safely, and use and maintenance of tools and equipment.</td>
</tr>
<tr>
<td>HORT 90Q</td>
<td>Residential Irrigation Systems</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Basic design and installation techniques for residential landscapes. Course takes a hands-on approach to understanding the materials and techniques used in installing both drip and spray irrigation systems. Examines methods for evaluating performance of existing irrigation systems.</td>
</tr>
<tr>
<td>HORT 90R</td>
<td>Seasonal Floral Design</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Floral design geared to the preparation of seasonal and holiday floral arrangements using commercially grown fresh and dried materials and other ornamentation. Concentrates on seasonal-specific floral designs and emphasizes the techniques and mechanics used in retail florist shop design.</td>
</tr>
<tr>
<td>HORT 90S</td>
<td>Technology Update on Insect Pest Management for Pest Control Advisors (PCA)</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Update for pest control advisers (PCA) and other people interested in insect pests in agricultural and ornamental landscapes on the newest strategies and technologies for ecologically and economically sound insect pest management. Applied point of view explaining theoretical concepts within the framework of specific insect and mite pest situations in the landscape.</td>
</tr>
<tr>
<td>HORT 90T</td>
<td>Gardens of the Renaissance</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Specific reference to the design and cultural legacies of Renaissance gardens. Overview of the design and cultural aspects of Renaissance gardens.</td>
</tr>
<tr>
<td>HORT 90U</td>
<td>Landscape Design: Perspective Sketching</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Basic perspective sketching for landscape design presentations. Setup and rendering of one-point and two-point perspectives, including location of horizon lines and vanishing points, height determination, positioning of objects, and rendering techniques for plants, people, structures, and landscape.</td>
</tr>
<tr>
<td>HORT 90V</td>
<td>Water Features in European Gardens</td>
<td>1</td>
<td>May be taken five times for credit. Three-quarters hour lecture, one-half hour laboratory. Explores the historic use and aesthetic affects of water in European Gardens. Examines the innovative techniques and mechanisms utilized in garden water feature hydraulics. Presents examples of European garden water features including fountains, waterfalls, water tricks and water organs.</td>
</tr>
</tbody>
</table>
HORT 90X  XERISCAPING: CREATING WATER-CONSERVING LANDSCAPES 1 Unit
May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.
Xeriscaping is the process of creating water-conserving landscapes. Landscape designs which incorporate xeriscape principles strive to limit the need for water and strike a balance between softscape and hardscape elements.

FA 190Z  DIRECTED STUDY .5 Unit
FA 190X 1 Unit
FA 190Y 1.5 Units
FA 190Z 2 Units
Advisory: Pass/No Pass.
Any combination of F A 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.
One-half hour lecture, three and one-half hours laboratory for each unit of credit.
Supervised activities in fine arts, for students who desire or require additional help in attaining comprehension and competency in learning skills in a fine arts subject. Supervised by the division dean or designee.

FASH 50  INTRODUCTION TO FASHION MERCHANDISING 4 Units
Four hours lecture.
Introduction to world of fashion with emphasis on History of fashion, including contemporary trends of fashion, basic concepts of design and fashion merchandising. Distribution and promotion of fashion merchandise, dynamics of fashion merchandising, fashion shows and modeling.

FREN 1  ELEMENTARY FRENCH 5 Units
Five hours lecture, two hours laboratory.
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in fine arts.

FREN 2  ELEMENTARY FRENCH 5 Units
Prerequisite: FREN 1 or one year of high school French.
Five hours lecture, two hours laboratory.
Intensive oral practice broadening the functions presented in French 1 and adding new ones. Greater emphasis on student generated discussion. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN FREN 1, CAN FREN 2 = FREN 1+2, CAN FREN SEQ A = FREN 1+2+3]

FREN 3  ELEMENTARY FRENCH 5 Units
Prerequisite: FREN 2 or two years of high school French.
Five hours lecture, two hours laboratory.
Intensive oral practice of basic everyday language functions to broaden the focus of FREN 2. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN FREN 2 = FREN 1+2, CAN FREN 3, CAN FREN SEQ A = FREN 1+2+3]

FREN 4  INTERMEDIATE FRENCH 5 Units
Prerequisite: FREN 3 or three years of high school French.
Five hours lecture, one hour laboratory.
Introduction to reading French literature. Further development of grammatical structures presented in first-year French. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in French. [CAN FREN 7, CAN FREN SEQ B = FREN 4+5+6]
FREN 5  INTERMEDIATE FRENCH  5 Units
Prerequisite: FREN 4 or four years of high school French.
Five hours lecture, one hour laboratory.
Continuation of FREN 4. Reading French literature and other materials intended for native speakers of French. Further development of grammatical structures presented in first year French. Emphasis on increased communicative competency, vocabulary building, and the distinction between informal and formal styles. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in French. [CAN FREN 9, CAN FREN SEQ B = FREN 4+5+6]

FREN 6  INTERMEDIATE FRENCH  5 Units
Prerequisite: FREN 5.
Five hours lecture, one hour laboratory.
Continuation of FREN 5. Reading French literature. Further development of grammatical structures presented in first-year French. Emphasis on comprehension and communication of doubts, emotions and hypotheses. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in French. [CAN FREN 11, CAN FREN SEQ B = FREN 4+5+6]

FREN 13A  INTERMEDIATE CONVERSATION I  3 Units
Prerequisite: FREN 3.
Advisory: May be taken concurrently with FREN 4.
Three hours lecture, one hour laboratory.
Review and development of oral and listening communication skills in the targeted functions studied in first-year French with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary French as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural and historical issues based on authentic texts, current news broadcasts, and/or films. Develop critical thinking skills by comparing different viewpoints and different values of diverse cultures.

FREN 13B  INTERMEDIATE CONVERSATION II  3 Units
Prerequisite: FREN 13A
Advisory: May be taken concurrently with FREN 4.
Three hours lecture, one hour laboratory.
Continuation of FREN 13 A. Review and development of oral and listening communication skills in the targeted functions studied in first year French with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary French as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of historical, political and cultural issues based on authentic texts, current news broadcasts, and/or films. Develop critical thinking skills by comparing different viewpoints and different values of diverse cultures.

FREN 14A  ADVANCED CONVERSATION I  3 Units
Prerequisite: FREN 13B or high school equivalent.
Advisory: May be taken concurrently with FREN 5.
Three hours lecture, one hour laboratory.
Designed to give students practice in oral/aural communication skills in an environment of increasingly challenging language situations. Practice on idioms and vocabulary as different from the usage of formal, written and literary language. Work on differentiating and choosing the culturally appropriate register for a given situation. Discussion of the cultural manifestations and History of the French-speaking world. Special emphasis on idioms, vocabulary used in making complaints, apologizing, elaborating, and comprehension beyond the immediate situation.

FREN 14B  ADVANCED CONVERSATION II  3 Units
Prerequisite: FREN 14A
Advisory: May be taken concurrently with FREN 6.
Three hours lecture, one hour laboratory.
Continuation of FREN 14A. Conversation course designed to allow students to interact in an environment of increasingly challenging language situations using complex communication skills. Emphasis on idioms, vocabulary and logical reasoning to express agreement, disagreement, doubt and skepticism on abstract topics. Comprehension of speech that is heavily reliant on cultural knowledge.

FREN 25A  ADVANCED COMPOSITION & READING  4 Units
Prerequisite: FREN 6.
Four hours lecture.
Reading and analysis of original French literary texts. Term paper, compositions, advanced grammar. Instruction in French.

FREN 25B  ADVANCED COMPOSITION & READING  4 Units
Prerequisite: FREN 25A.
Four hours lecture.
Reading and analysis of original French literary texts. Term paper, compositions.

FREN 34  HONORS INSTITUTE SEMINAR IN FRENCH  1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions, and projects in French. Specific topics to be determined by the instructor.

FREN 36  SPECIAL PROJECTS IN FRENCH  1 Unit
FREN 36X  2 Units
FREN 36Y  3 Units
FREN 36Z  4 Units
Prerequisite: FREN 5.
Advisory: Enrollment for this course is available in the Language Arts Division Office. Any combination of FREN 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.

One hour lecture for each unit of credit.
A study oriented toward spoken or written practice or both in French. Development of research and critical techniques adapted to individual writing and/or oral presentation projects under instructor supervision. Not to be substituted for departmental requirements.

FREN 39  CONTEMPORARY FRANCOPHONE LITERATURE IN TRANSLATION  4 Units
Advisory: Eligibility for ENGL 1A or equivalent.
Four hours lecture.
Reading and study of selected literature from French speaking countries, which represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Discussion focuses on specific cultural, social, historical and political aspects as expressed through different literary genres.

FREN 190  DIRECTED STUDY  .5 Unit
FREN 190X  1 Unit
FREN 190Y  1.5 Units
FREN 190Z  2 Units
Advisory: Pass/No Pass.
Any combination of FREN 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.

One-half hour lecture of individualized instruction for each 1/2 unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

GEOGRAPHY

Business & Social Sciences Division
(650) 949-7322
www.foothill.edu/bss/

GEOG 1  PHYSICAL GEOGRAPHY  5 Units
Advisory: Eligibility for ENGL 1A or ESL 26; MATH 101.
Four hours lecture, one hour lecture/laboratory, two hours laboratory, one hour collaborative discussion.
Study of the Earth's surface, including the earth's dimensions and systems; atmospheric processes; patterns of climate, vegetation and soils; and features, processes and interactions of land, water and various energy sources. Use of maps for interpretation.

GEOG 2  HUMAN GEOGRAPHY  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture, one hour laboratory.
The cultural geographic landscape. Study of the human population from origins to the present with an emphasis on the future. Examination of population densities, migrations and settlements; races, languages and religions; patterns of land use and major environmental perceptions and problems. Analysis of energy, mineral, and food resources and how cultures utilize them. [CAN GEOG 4]
GEOG 5  INTRODUCTION TO ECONOMIC GEOGRAPHY  4 Units
Four hours lecture.
Introduction to the geography of economic activity; the world wide distribution and characteristics of agriculture, forestry, fishing, mining, manufacturing, transportation, high technology and international trade.

GEOG 9  CALIFORNIA GEOGRAPHY  4 Units
Four hours lecture.
Study of extreme regional variations within California. Factors contributing to landscape change. Examination of exploration, settlement, economic development, and urban-industrial-transportation patterns. Extensive use of maps, GIS, Internet and current events.

GEOG 10  WORLD REGIONAL GEOGRAPHY  4 Units
Four hours lecture.
Survey of the world’s major culture regions and major nations. Physical, cultural, economic features. Emphasis on historical influences on population growth, transportation networks, natural environment, potential and problems. Location, importance and impact of the foremost features of countries, states, major cities, rivers and landform regions.

GEOG 12  INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)  4 Units
Three hours lecture, three hours laboratory.
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, Georeferencing and Global Positioning Systems (GPS). Discussion and analysis of uncertainty propagation with a GIS. Modeling with GIS.

GEOG 34  HONORS INSTITUTE SEMINAR IN GEOGRAPHY  1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in geography. Specific topics to be determined by the instructor.

GEOG 35  DEPARTMENT HONORS PROJECTS IN GEOGRAPHY  1 Unit
May be taken six times for credit.
One hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

GEOG 36  SPECIAL PROJECTS IN GEOGRAPHY  1 Unit
GEOG 36X  2 Units
GEOG 36Y  3 Units
GEOG 36Z  4 Units
Any combination of GEOG 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.
One hour lecture for each unit of credit.
Advanced readings, research, and/or project in geography. Specific topics determined in consultation with instructor.

GEOG 52  ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS)  4 Units
Three hours lecture, three hours laboratory.

GEOG 54A  SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS  2 Units
May be taken two times for credit.
Two hours lecture.
Seminar on the diverse applications of Geographic Information Systems (GIS). Weekly presentations by guest speakers.

GEOG 54B  SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS  2 Units
Formerly: GEOG 54
Corequisite: GEOG 54A.
Six hours laboratory.
Students undertake an original GIS project of their choosing under guidance of the instructor.

GEOG 58  REMOTE SENSING & DIGITAL IMAGE PROCESSING  2 Units
One hour lecture, three hours laboratory.
Physical basis of remote sensing. Aerial photography and high resolution multi-band imaging. Satellite multi-band optical remote sensing. Other forms of remote sensing (RADAR, SAR, LIDAR). Applications of remote sensing.

GEOG 59  CARTOGRAPHY, MAP PRESENTATION & DESIGN  2 Units
One hour lecture, three hours laboratory.
Map projections, geodes, coordinate systems. Map composition. Selection of colors and symbols.

GEOG 73  DYNAMIC & INTERACTIVE MAPPING  4.5 Units
Prerequisite: GEOG 12 and GEOG 52 or equivalent.
Two and one half hours lecture, six hours laboratory.
Design and implementation of dynamic presentations for visualizing geographic information. Lab projects creating animated and multimedia presentations, and designing user-interfaces for interactive mapping systems.

GEOG 78  GEOGRAPHIC INFORMATION SCIENCE PROJECTS  4.5 Units
Prerequisites: GEOG 73.
Two and one half hours lecture, six hours laboratory.
Implementation of geographic information science projects in a group environment for targeted applications. Design and application of interactive mapping systems and dynamic animation in a GIS environment. Example project areas include (but are not limited to) Web mapping and Web GIS; advanced spatial databases; integrating remote sensing and geographic information systems; and geographic Web services. Projects may involve client organizations.

GEOG 90A  INTRODUCTION TO GIS FOR K-12 TEACHERS I: FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS SCIENCE  1 Unit
One hour lecture.
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection and coordinate systems. Applications and uses of GIS and data visualization in the classroom and in and out of the classroom. Integration of technology intensive curriculum with the traditional classroom model.

GEOG 90B  INTRODUCTION TO GIS FOR K-12 TEACHERS II: UTILIZING SPATIAL DATA & DATA ANALYSIS IN THE CLASSROOM  1 Unit
One hour lecture.

GEOG 90C  INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR K-12 TEACHERS III: DESIGNING & IMPLEMENTING A GIS  1 Unit
One hour lecture.
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Designing and creating an original GIS. Database design, fundamentals of data storage, scanning and heads-up digitizing. Finding and accessing free data sources on the Internet.

GEOG 100A  INTRODUCTION TO ARC VIEW GIS  .5 Unit
One-half hour lecture.
Introduction to ESRI’s ArcView GIS software. Fundamental GIS concepts. Hands-on experience with basic elements of project file set-up, managing projects and conducting basic queries.

GEOG 100B  INTRODUCTION TO GEO MEDIA & GEO MEDIA PRO  .5 Unit
One-half hour lecture
Introduction to Intergraph's GeoMedia and GeoMedia Pro GIS software. Fundamental GIS concepts. Hands-on experience working with GeoWorkspaces, Data Warehouses, and conducting basic queries.
GEOL 3  GEOLOGY OF THE NATIONAL PARKS  4 Units
Three hours lecture, one hour lecture-discussion, one hour field trip.
Geologic concepts and processes responsible for shaping our national parks, including mountain building, volcanic and earthquake activity, sedimentation, weathering, erosion and glaciation. An understanding of how geology impacts our lives will be emphasized. Appropriate for both science and non-science majors who wish to enhance their knowledge, enjoyment and appreciation of our national parks. One Saturday field trip is required.

GEOL 7  NATURAL DISASTERS & EARTH CATASTROPHES  4 Units
Four hours lecture, one hour field trip.
The role of catastrophic processes and natural disasters in shaping the earth system and its impact on society. Earthquakes, volcanic eruptions, tsunamis, floods, severe weather, landslides, and meteorite impacts will be described, along with the role played by these rapid processes in the geological and biological evolution of the planet. Emphasis on the examination of cause and effect in catastrophic events and mitigation of natural disasters. One Saturday field trip required. Students are responsible for field trip costs.

GEOL 10  INTRODUCTORY GEOSCIENCE  5 Units
Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour field trip.
An introduction to geoscience, from the perspective of natural disasters and portrayal in popular culture. Focus on the change in the earth system to humanity through the lens of natural disasters, popular film, science fiction and news reports. Earthquakes, plate tectonics, volcanism, evolution of the continents and ocean basins, land form evolution, global climate change, earth structures, geologic time, rock and mineral identification, map interpretation, and computer applications in earth imaging and visualization. One Saturday field trip is required. [CAN GEOL 2]

GEOL 11  EVOLUTION OF THE EARTH  5 Units
Prerequisite: GEOL 10.
Four hours lecture, one hour lecture-laboratory, two hours laboratory, two hours field trip.
Evolution of the earth and the life it supports, as determined by the geologic and fossil records. Concepts governing change of the crust, oceans, and biosphere of the earth, evaluation of global climatic change. Two Saturday field trips are required. [CAN GEOL 4]

GEOL 22  PLANETARY GEOLGY  3 Units
Advisory: GEOL 10.
Two hours lecture, two hours lecture-laboratory, one hour field trip.
The origin, composition, structure and evolution of lunar and planetary surface features as determined from manned and unmanned spacecraft and terrestrial observation. The techniques of interpreting the geology of planetary surfaces using digital imaging data from NASA spacecraft. One field trip to NASA-Ames Research Center or the U.S. Geological Survey Astrogeology section required.

GEOL 25  TECTONICS  3 Units
Advisory: GEOL 10.
Two hours lecture, two hours laboratory, two hours field trip.
Plate Tectonics as a tool in understanding the dynamic processes that shape the earth. Structure of continental and oceanic crust; evolution of continents and mountain ranges. The rock record of modern and ancient tectonic regimes. One weekend field trip required. All field trip costs are to be borne by the student.

GEOL 34  HONORS INSTITUTE SEMINAR IN GEOLOGY  1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture:
A seminar in directed readings, discussions and projects in geology. Specific topics to be determined by the instructor.

GEOL 36  SPECIAL PROJECTS IN GEOLOGY  1 Unit
GEOL 36X  2 Units
GEOL 36Y  3 Units
Prerequisite: GEOL 11.
Any combination of GEOL 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
One meeting to be arranged each week to discuss special topics and problems, both traditional and current, in geology. Readings and laboratory work directed by the instructor.

GEOL 95A  EXCURSIONS IN GEOLOGY: LASSEN VOLCANIC NATIONAL PARK  1 Unit
Formerly: GEOL 45A
Advisory: Not open to students with credit in GEOL 45A.
Three hours field trip.
Field trip to Lassen Volcanic National Park, Northeastern California. Emphasis on determining the geologic History and evolution of the national park and its surrounding environs. All field trip costs are to be borne by the student.

GEOL 95B  EXCURSIONS IN GEOLOGY: YOSEMITE NATIONAL PARK  1 Unit
Formerly: GEOL 45B
Prerequisite: GEOL 3 or 10, or equivalent experience.
Advisory: Not open to students with credit in GEOL 45B.
Three hours field trip.
Field trip to Yosemite National Park in the Sierra Nevada. Emphasis on determining the geologic History and evolution of the national park and its surrounding environs. All field trip costs are to be borne by the student.

GEOL 95C  EXCURSIONS IN GEOLOGY: HOLLISTER & PINNACLES NATIONAL MONUMENT  1 Unit
Formerly: GEOL 45C
Advisory: Not open to students with credit in GEOL 45C.
Three hours field trip.
Field trip to the Hollister area and Pinnacles National Monument. Emphasis on discerning the movement History of the Calaveras fault and San Andreas transform margin, determination of the importance of the volcanic sequence in the national monument. All field trip costs are to be borne by the student.

GEOL 95D  EXCURSIONS IN GEOLOGY: OWENS VALLEY & EASTERN SIERRAS  1 Unit
Formerly: GEOL 45D
Advisory: Not open to students with credit in GEOL 45D.
Three hours field trip.
Field trip to the Owens Valley and eastern Sierras of California. Emphasis on the tectonic and volcanic History of the area as well as its evidence for recent climatic change. All field trip costs are to be borne by the student.

GEOL 95E  EXCURSIONS IN GEOLOGY: NORTH COAST, POINT REYES NATIONAL SEASHORE & SAN ANDREAS FAULT ZONE  1 Unit
Formerly: GEOL 45E
Advisory: Not open to students with credit in GEOL 45E.
Three hours field trip.
Field trip to the Point Reyes National Seashore. Emphasis on determining the geologic History and evolution of the national seashore and its critical position in understanding the evolution of the San Andreas fault zone. All field trip costs are to be borne by the student.

GEOL 99A  GEOLOGIC EXPEDITIONS: DEATH VALLEY & COLORADO PLATEAU  3 Units
Formerly: GEOL 49A
Advisory: Not open to students with credit in GEOL 49A.
One hour lecture-laboratory, one hour laboratory, seven hours field trip.
Field trip to the Western Basin, Range Province and Colorado Plateau. Destinations include Death Valley, Bryce Canyon, Zion and Grand Canyon National Parks. Emphasis on determining the geologic History and evolution of this spectacular region. All field trip costs are to be borne by the student.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 1</td>
<td>ELEMENTARY GERMAN</td>
<td>5</td>
<td></td>
<td>Intensive oral practice of basic, every-day language functions. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 1, CAN GERM SEQ A = GERM 1+2+3]</td>
</tr>
<tr>
<td>GERM 2</td>
<td>ELEMENTARY GERMAN</td>
<td>5</td>
<td>GERM 1 or one year of high school German.</td>
<td>Further development of material presented in GERM 1. Intensive oral practice broadening the functions presented in GERM 1 and adding new ones. Greater emphasis on student generated discussion. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 3, CAN GERM SEQ A = GERM 1+2+3]</td>
</tr>
<tr>
<td>GERM 3</td>
<td>ELEMENTARY GERMAN</td>
<td>5</td>
<td>GERM 2 or two years of high school German.</td>
<td>Further development of material presented in GERM 1 and 2. Intensive oral practice of basic, every-day language functions. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 5, CAN GERM SEQ A = GERM 1+2+3]</td>
</tr>
<tr>
<td>GERM 4</td>
<td>INTERMEDIATE GERMAN</td>
<td>5</td>
<td>GERM 3 or three years of high school German.</td>
<td>Introduction to reading German literature. Recycling of grammatical structures presented in first-year German. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in German. [CAN GERM 7, CAN GERM SEQ B = GERM 4+5+6]</td>
</tr>
<tr>
<td>GERM 5</td>
<td>INTERMEDIATE GERMAN</td>
<td>5</td>
<td>GERM 4 or four years of high school German.</td>
<td>Continued introduction to reading German literature. Recycling of grammatical structures presented in first-year German. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in German. [CAN GERM 7, CAN GERM SEQ B = GERM 4+5+6]</td>
</tr>
<tr>
<td>GERM 6</td>
<td>INTERMEDIATE GERMAN</td>
<td>5</td>
<td>GERM 5</td>
<td>Five hours lecture, one hour laboratory. Continuous introduction to reading German literature. Recycling of grammatical structures presented in first-year German. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in German. [CAN GERM 11, CAN GERM SEQ B = GERM 4+5+6]</td>
</tr>
<tr>
<td>GERM 8</td>
<td>POSTWORLD WAR II GERMANY</td>
<td>4</td>
<td></td>
<td>Exploration of historical, political and cultural developments in Germany 1945 to the present. Perspectives on the construction of a German national identity/identities and historical memory through literature and film. Interdisciplinary approach to analyze the existence of the two German states and the development of German unification.</td>
</tr>
<tr>
<td>GERM 13A</td>
<td>INTERMEDIATE CONVERSATION I</td>
<td>3</td>
<td>GERM 3</td>
<td>Three hours lecture, one hour laboratory. Designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary as different from the usage of formal written and literary language.</td>
</tr>
<tr>
<td>GERM 13B</td>
<td>INTERMEDIATE CONVERSATION II</td>
<td>3</td>
<td>GERM 13A</td>
<td>Three hours lecture, one hour laboratory. Designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary as different from the usage of formal written and literary language.</td>
</tr>
<tr>
<td>GERM 14A</td>
<td>ADVANCED CONVERSATION I</td>
<td>3</td>
<td>GERM 13B</td>
<td>Three hours lecture, one hour laboratory. Continuation of GERM 13B. Designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary as different from the usage of formal written and literary language.</td>
</tr>
<tr>
<td>GERM 14B</td>
<td>ADVANCED CONVERSATION II</td>
<td>3</td>
<td>GERM 14A</td>
<td>Three hours lecture, one hour laboratory. Continuation of GERM 14A. Designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary as different from the usage of formal written and literary language.</td>
</tr>
<tr>
<td>GERM 25A</td>
<td>ADVANCED COMPOSITION &amp; READING</td>
<td>4</td>
<td>GERM 5</td>
<td>Four hours lecture. Extensive reading and analysis of texts and literature as exponents of the culture and History of German-speaking countries with special emphasis on the short story. Intensive discussions about the readings in class as well as compositions and advanced grammar.</td>
</tr>
<tr>
<td>GERM 25B</td>
<td>ADVANCED COMPOSITION &amp; READING</td>
<td>4</td>
<td>GERM 25A</td>
<td>Four hours lecture. Continuation of GERM 25A. Extensive reading and analysis of texts and literature as exponents of the culture and History of German-speaking countries with special emphasis on the novel, novella and poetry. Intensive discussions about the readings in class as well as compositions.</td>
</tr>
<tr>
<td>GERM 34</td>
<td>HONORS INSTITUTE SEMINAR IN GERMAN</td>
<td>1</td>
<td>Membership in the Honors Institute.</td>
<td>One hour lecture. A seminar in directed readings, discussions, and projects on issues relevant to the History and/or culture of German-speaking countries. Specific topics to be determined by the instructor.</td>
</tr>
<tr>
<td>GERM 36</td>
<td>SPECIAL PROJECTS IN GERMAN</td>
<td>1</td>
<td>GERM 6</td>
<td>Any combination of GERM 36, 36X, 36Y &amp; 36Z may be taken a maximum of six times for credit. One hour lecture for each unit of credit. Development of research techniques and critical thinking skills for individual writing and/or oral presentation projects. Specific topics vary from quarter to quarter. This course cannot be substituted for departmental requirements.</td>
</tr>
<tr>
<td>GERM 38</td>
<td>GERMAN LITERATURE IN TRANSLATION</td>
<td>4</td>
<td>Enroll in 1A.</td>
<td>Advisory: Eligibility for ENGL 1A. Four hours lecture. Reading and study of selected literature from German-speaking countries. Discussion focus on specific cultural, social and historical aspects as expressed through different literary periods.</td>
</tr>
</tbody>
</table>
GERONTOLOGY

Adaptive Learning Division (650) 949-7321
www.foothill.edu/al

GERN 70 SUCCESSFUL AGING 2 Units
Two hours lecture.
Focuses on important factors in maintaining optimal physical, mental, emotional, and spiritual health in one’s later years. Intended audience: older adults and/or their family members.

GERN 71 CULTURE COUNTS: MAINTAINING POSITIVE MENTAL HEALTH WITHIN A CULTURAL CONTEXT 5 Unit
One half-hour lecture.
This lecture and discussion class focuses on what is known about challenges to mental health and techniques of preserving positive mental health among older adults from diverse cultures. The two major challenges included are depression and stress. Differentiating normal responses to losses in late life from problems in need of treatments and options for prevention and treatment are discussed.

GERN 72 CROSS CULTURAL ISSUES IN DEATH & DYING 5 Unit
One half-hour lecture.
The course is designed to review issues in providing appropriate cross cultural health care, followed by specific information on palliative care at the end of life for diverse cultural populations. Religious issues are emphasized. It is appropriate for any interested students but especially appropriate for health professionals.

GERN 73 CULTURAL ISSUES IN EMERGENCY PREPAREDNESS & OLDER ADULTS 5 Unit
One half-hour lecture.
This course will focus on basic information on Geriatric Emergency Preparedness, Response, and Recovery (GEP-RR) specific to older adults and important cultural considerations for ethnic elders and their families. Special needs of ethnic elders with diabetes and sensory loss will be discussed with case vignettes and application exercises. The intended audiences are health care and social service providers, students, and family and community leaders who care for older adults including ethnic elders.

GERN 74 CULTURAL DIVERSITY IN LONG-TERM CARE 5 Unit
One half-hour lecture.
Cultural dimensions and familial dimensions of long term care. This interactive day of learning will maximize the circle of inquiry into the challenges and the rich opportunities that cultural and spiritual diversity provide in long term care. Intended audience includes, but is not limited to: psychologists, nurses, social workers, activity directors, geriatric case managers, long term care providers, pastoral care providers, and older adult caregivers.

GERN 75 MENTAL HEALTH ASPECTS OF DIABETES AMONG ELDERS FROM DIVERSE BACKGROUNDS 1 Unit
One hour lecture.
This course provides an in-depth review of the issues related to the increased risk of depression and cognitive loss or dementia among elders with diabetes from seven ethnic backgrounds in which the risk of diabetes is greater than that of older Americans. Specific modules include: an overview of mental health risks for all elders with diabetes; sections on risk, culturally appropriate assessment and management of diabetes, depression and cognitive loss among African American, American Indian, Chinese American, Filipino American, Hmong American, Japanese American, and Mexican American; and issues in emergency preparedness for ethnically diverse elders with sensory limitation due to diabetes. Particular strengths of the curriculum are its in-depth information for each population on culturally appropriate nutrition for diabetes control among elders with traditional diets, and information on traditional cultural remedies.

GRAPHICS & INTERACTIVE DESIGN

Fine Arts & Communication Division (650) 949-7571
www.foothill.edu/graphicdesign/

GID 1 HISTORY OF GRAPHIC DESIGN 4 Units
Formerly: GRDS 36
Advisory: Not open to students with credit in ART 36.
Four hours lecture, one hour laboratory.
A study of the development of visual communication in art, graphic design, illustration and popular culture. Emphasis on the role, impact and interpretation of images, symbols, and typography used in informative and persuasive media.

GID 20 DIGITAL VIDEO PRODUCTION I 4 Units
Formerly: GRDS 20
Prerequisite: Not open to students with credit in VART 20.
Three hours lecture, two and one-half hours lecture-laboratory.
Basic instruction in concepts, techniques, and strategies of DV video production. Basic camera, lighting and sound recording will be covered through technical workshops. Emphasis on video story telling and creative problem solving.

GID 38 PRINTMAKING I 4 Units
Formerly: GRDS 69
Advisory: ART 4A and 5A.
Two hours lecture, two hours lecture-laboratory, two hours laboratory.
Introduction to the printmaking processes of relief, intaglio, screenprinting and monoprinting. Theory and practice making limited-edition and one-of-a-kind fine art prints.

GID 39 PRINTMAKING II 4 Units
Prerequisite: GID 38.
May be taken six times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Continuation of Printmaking I. Multi-color printing and photographic processes for relief, intaglio, screenprinting and paper plate lithography. Theory and practice making limited-edition and one-of-a-kind fine art prints.

GID 40 DIGITAL PRINTMAKING 4 Units
Formerly: GRDS 71
Advisory: ART 56 or GID 74.
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, two hours laboratory.
Introduction to the creative, expressive and experimental possibilities of using digital media to produce fine art prints. Emphasis on image creation, printing technologies and printing techniques.

GID 42 BEGINNING ETCHING 3 Units
Formerly: GRDS 37A
Advisory: Not open to students with credit in ART 37A.
Six hours lecture-laboratory.
Beginning techniques in printmaking, including embossing, monoprinting, chine colle, drypoint, softground, line etching, handcoloring, printing and the editioning of plates.

GID 44 BEGINNING RELIEF PRINTMAKING 3 Units
Advisory: ART 4A and 5A.
May be taken six times for credit.
Six hours lecture-laboratory.
An introduction to relief printing processes, exploring the basic techniques of embossing, linoleum block, wood block and collagraph printing.

GID 46 BEGINNING SCREENPRINTING 3 Units
Formerly: GRDS 39A
Advisory: ART 4A or 5A. Not open to students with credit in ART 39A.
Six hours lecture-laboratory.
An introduction to screen printing processes, exploring the basic techniques for making cut stencil designs and drawn stencil images.

GID 48 MONOPRINTING 3 Units
Advisory: Not open to students with credit in ART 49.
Six hours lecture-laboratory.
Studio experiences in printmaking methods that create one-of-a-kind fine art prints. Emphasis on artistic growth of imagery while developing technical skills with tools, media and techniques.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008 www.foothill.edu
GID 50 GRAPHIC DESIGN STUDIO I 4 Units
Formerly: GRDS 53
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Introduction to graphic design and visual communication. Projects include composition, typography, image creation and logo design. Creative ideas are explored in sketches and rough layouts. Students learn fundamental software skills using Adobe Illustrator and Photoshop to complete the graphic design activities in this course.

GID 51 GRAPHIC DESIGN STUDIO II 4 Units
Prerequisite: GID 50.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Continuation of GID 50. Students engage in problem solving with real-world graphic design projects. Focus on creative solutions that effectively use type, image, and layout. Projects include branding, identity, newsletter, web site, and package design. Creative ideas are explored in sketches, rough layouts, and finished comps. Students learn software skills using Adobe InDesign, Illustrator, and Photoshop to complete the graphic design activities in this course.

GID 52 GRAPHIC DESIGN STUDIO III 4 Units
Prerequisite: GID 51.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Continuation of GID 51. Students design and produce a real-world graphic design campaign. Focus on creative solutions that effectively use type, image, and layout. Projects include branding, identity, newsletter, web site, and package design. Creative ideas are explored in sketches, rough layouts, and final presentations. Students learn software skills using Adobe Acrobat, InDesign, Illustrator, Photoshop, and Macromedia Dreamweaver to complete the graphic design activities in this course.

GID 54 TYPOGRAPHY 4 Units
Formerly: GRDS 62
Advisory: GID 50, and GID 74 or proficiency using InDesign/Quark software.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Exploration and experimentation with letter forms and page layout for expressive communication. Fundamental typographic principles, font recognition, and analysis of both historical and modern design theory. Emphasis on content, form, and technique for effective use of typography in ads, posters, newsletters and other visual communications.

GID 56 WEB SITE DESIGN 4 Units
Formerly: GRDS 94
Advisory: GID 50, proficiency using Dreamweaver, Illustrator and Photoshop software.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Basic instruction using the computer for web site and interface design. Emphasis on interactive media and creative problem solving.

GID 60 CAREERS IN THE VISUAL ARTS 2 Units
Formerly: GRDS 50
Advisory: Not open to students with credit in VART 50.
Two hours lecture. Exploring the field of visual arts including fine arts, design, graphic design, photography, video arts, new media, and theatre arts. Survey of transfer schools, art studios, company art departments, advertising agencies and job opportunities for creative services professionals.

GID 61 PORTFOLIO 4 Units
Formerly: GRDS 77
Six hours lecture-laboratory, three hours laboratory. Preparation for displaying work samples when seeking employment. Planning ahead for the individual student professional “book” with emphasis on selection, size, arrangement, color coordination, effectiveness and appropriateness.

GID 62 SERVICE LEARNING PROJECTS 4 Units
Formerly: GRDS 83
Advisory: Completion of entry level design and software courses. May be taken three times for credit.
Six hours lecture-laboratory, three hours laboratory. Fulfillment of work-related assignments for on-campus and off-campus not-for-profit organizations. Faculty coordinator helps the student apply skills learned in graphic arts courses to community-based projects. Disciplines include graphic design, photography and studio art.

GID 64A GRAPHIC & INTERACTIVE DESIGN EXPERIENTIAL INTERNSHIP 4 Units
May be repeated six times for credit.
Twelve hours laboratory.
Off-campus supervised experiential education of graphic and interactive design students. Opportunity for practical application of knowledge, skills and abilities acquired in graphic design and as well as other related course work. Opportunity for additional hands-on training in all aspects graphic design. Exposure to varied protocols, methodologies and practices in a professional working environment.

GID 64B GID EXPANDED EXPERIENCIAL INTERNSHIP 6 Units
May be taken two times for credit.
Eighteen hours laboratory.
Off-campus supervised experiential education of graphic and interactive design students. Opportunity for practical application of knowledge, skills and abilities acquired in graphic design and as well as other related course work. Opportunity for additional hands-on training in all aspects graphic design. Exposure to varied protocols, methodologies and practices in a professional studio/work environment.

GID 70 GRAPHIC DESIGN DRAWING 4 Units
Formerly: GRDS 60
Two hours lecture, two hours lecture-laboratory, two hours laboratory. Developing drawing skills for communicating ideas. Learning to simplify complex realistic images to express design concepts rapidly and effectively.

GID 71 STORYBOARDING 4 Units
Formerly: GRDS 76
Advisory: GID 70.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Fundamentals of creating storyboards and flowcharts for media projects. Emphasis on technique, concept development and design of storyboards. Exploration of storyboard applications for new media content.

GID 72 CARTOONING 4 Units
Formerly: GRDS 73A
May be taken for a maximum of 12 units for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Fundamentals of drawing cartoons for mass communication with a variety of styles and techniques. Emphasis on skills, concepts, humor, and design. Exploration of career opportunities.

GID 74 INTRODUCTION TO DIGITAL ART & GRAPHICS 4 Units
Formerly: GRDS 56
Advisory: Familiarity with computer operating systems, ART 4A or GID 70; ART 5A; PHOT 1. Not open to students with credit in ART 56 or PHOT 75.
Six hours lecture-laboratory, three hours laboratory. Basic instruction using the computer for painting, drawing, image processing, photo composites and typography. Emphasis on image making and creative problem solving.

GID 76 ILLUSTRATION & DIGITAL IMAGING 4 Units
Formerly: GRDS 80
Advisory: ART 4A or GID 70. GID 74 or familiarity with painting and drawing software.
Two hours lecture, two hours lecture-laboratory, two hours laboratory. Creation of images to communicate ideas. Traditional and digital media. Emphasis on concept development and communication effectiveness. Development of personal visual vocabulary while learning art making techniques and media, reproduction processes and illustration business practice.

GID 80 DIGITAL SOUND, VIDEO & ANIMATION 4 Units
Formerly: GRDS 86
Advisory: Not open to students with credit in ART 88, DRAMA 86, VART 86, MUS 86.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Basic instruction using the computer for emerging media technologies, digital sound, video editing, and animation. Emphasis on time based media and creative problem solving.
GID 84  MOTION GRAPHICS  4 Units
Formerly: GRDS 87
Advisory: GID 80 or MUS 86 or VART 86.
Prerequisite: Not open to students with credit in VART 87.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Basic instruction using the computer for motion graphic design and composite
digital video production. Emphasis on time based media and its application
to creative problem solving and communication solutions.

GID 90  BOOK ARTS I  4 Units
Formerly: GRDS 96
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, two hours laboratory.
Introduction to the skills and techniques of the book arts. Students will learn
construction and mounting skills for books, boxes and portfolios. Traditional and
non-traditional binding formats include stab, accordion, concertina and signature
sewing. Emphasis on form building while exploring content and narrative.

GID 91  BOOK ARTS II  4 Units
Prerequisite: GID 90.
May be taken six times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Continuation of Book Arts I. Studio experiences in making art that takes book
form. Students will learn strategies for content development; design, layout and
typography; and narrative structures, pacing and sequencing. Reproduction
techniques include traditional and digital media including relief printing, stencil
printing, transfer printing and commercial printing. Emphasis on content and
narrative while advancing book construction skills.

GID 92  LETTERPRESS PRINTING  4 Units
Formerly: GRDS 40
Advisory: GID 50 and 74.
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, two hours laboratory.
Studio practice in letterpress printing to create limited-edition prints and books.
Introduction to the skills and techniques of handset type, hand-carved relief plates
and photopolymer plates. Emphasis on technical skills with tools and media, visual communication,
and aesthetics of print media.

GID 94  BOOK ARTS PROFESSIONAL PRACTICES  3 Units
May be taken for a maximum of 16 units of credit.
Two hours lecture, two hours lecture-laboratory.
Introduction to the professional practices of the book artist and book arts
organizations. Application of strategies to create, critique, exhibit and distribute
artist’s books. Participation in community based learning through the organization
and implementation of book art events and activities.

GID 95  GRAPHIC ARTS STUDIO PROJECTS  4 Units
Prerequisite: Enrollment subject to instructor’s approval.
Two hours lecture, two hours lecture-laboratory, two hours laboratory.
Application of principles and theories introduced in previously taken graphic arts
courses to student-motivated projects. Projects address information gathering,
idea generation, concept development, production and distribution.

GID 150  BOOK ARTS ACTIVITIES  .5 Unit
GID 150X  1 Unit
GID 150Y  2 Units
GID 150Z  4 Units
Formerly: GRDS 150
Any combination of GID 150, 150X, 150Y & 150Z may be taken for a maximum
of 24 units.
One hour lecture-laboratory.
Activities in the book arts. Specific topics to be determined by the instructor.

GID 151  PRINTMAKING STUDIO  .5 Unit
GID 151X  1 Unit
GID 151Y  2 Units
GID 151Z  4 Units
Any combination of GID 151, 151X, 151Y & 151Z may be taken for a maximum
of 18 units.
One hour lecture-laboratory.
Supervised studio practice in printmaking projects. Application of skills learned
in previously taken graphic arts courses.

HEALTH

Biological & Health Sciences Division  (650) 949-7249
www.foothill.edu/bio/programs/

HLTH 5  EMERGENCY RESPONSE  5 Units
May be taken three times for credit.
Four hours lecture, three hours laboratory.
Provides the student with the knowledge and skills necessary in an emergency to
help sustain life, reduce pain, and minimize the consequences of injury or sudden
illness until more advanced medical help can arrive. Upon successful completion
of the course students will receive American Red Cross certificates in Emergency
Response and CPRPR/AED update 2006. This course fulfills the 1998 Department
of Transportation criteria as a first responder course.

HLTH 21  HEALTH EDUCATION  3 Units
Three hours lecture.
Development of understanding and attitudes relative to personal, family, and community
health needs. Emphasis placed upon epidemiology of disease, nutritional behavior,
communicable disease, disease prevention, mental health and substance abuse.

HISTORY

Business & Social Sciences Division  (650) 949-7322
www.foothill.edu/bss/

HIST 4A  HISTORY OF WESTERN CIVILIZATION  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Survey of the development of Western culture and civilization in the ancient world.
From the Neolithic period to the early Middle Ages. [CAN HIST 2 = HIST 4A+4B,
CAN HIST SEQ A = HIST 4A+4B+4C]

HIST 4B  HISTORY OF WESTERN CIVILIZATION  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Survey of the development of Western society and culture from the early Middle
Ages through the Age of Enlightenment. Emphasis upon the cultural, social,
intellectual, and institutional changes that led to the birth of the modern Western
culture and its interchange with the peoples of the world’s continents. [CAN HIST
2 = HIST 4A+4B, CAN HIST SEQ A = HIST 4A+4B+4C]

HIST 4C  HISTORY OF WESTERN CIVILIZATION  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Survey of the development of Western society and culture during the nineteenth
and twentieth centuries. Emphasis upon the social, intellectual, and institutional
changes that have led to the contemporary Western world and its interchange
with the peoples and institutions of the world’s continents.

HIST 4CH  HONORS HISTORY OF WESTERN CIVILIZATION  4 Units
Four hours lecture.
Survey of the development of Western society and culture during the nineteenth
and twentieth centuries. Emphasis upon the social, intellectual, and institutional
changes that have led to the contemporary Western world and its interchange
with the peoples and institutions of the world’s continents. As an honors course, it is a
full thematic seminar with advanced teaching methods focusing on major writing,
reading, and research assignments, student class lectures, group discussions
and interactions.
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.

HIST 8  HISTORY OF LATIN AMERICA  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
History of Latin America from Pre-Columbian times to the present. Emphasis upon
Native and European contributions to present Latin American culture. Special
emphasis on governmental systems and social and economic progress. Includes
revolutionary movements and their present status.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 9</td>
<td>HISTORY OF CONTEMPORARY EUROPE</td>
<td>4</td>
<td>Twentieth Century Europe. Political, social, and cultural developments in recent European History. World War I and the consequences of Versailles, Bolshevik Revolution and rise of Communism, Italian Fascism and German Nazism. The diplomacy of World War II, Cold War, and current developments in Western and Eastern Europe. Global impacts.</td>
</tr>
<tr>
<td>HIST 10</td>
<td>HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE</td>
<td>4</td>
<td>Pre-Columbian civilizations, the Spanish conquest, and development of Mexico since independence; evolution of political, economic and social institutions; relationship with the United States.</td>
</tr>
<tr>
<td>HIST 15</td>
<td>HISTORY OF MEXICO</td>
<td>4</td>
<td>Role of Africa in the development of civilization. Chronological and topical survey of Africa from prehistory through ancient civilizations to the decline of the Portuguese hegemony and modern times. Examination of the cultural, political, economic developments of the peoples of the African continent. Consideration of literature, art, African states, kingdoms, empires and texts in translation. Special emphasis on the great kingdoms of Africa, the Atlantic Slave Trade’s impact, rise of Islam, arrival of Europeans. Stresses the interactions of the peoples of Africa with each other and with the worlds of Europe and Islam. African initiatives and African voices.</td>
</tr>
<tr>
<td>HIST 16</td>
<td>INTRODUCTION TO ANCIENT ROME</td>
<td>4</td>
<td>Chronological and topical survey of Roman History from the founding of Rome to the reign of Constantine. Emphasis upon the political, social, economic development in the Late Republic and Empire. Consideration of literature, art, architecture, texts in translation.</td>
</tr>
<tr>
<td>HIST 17A</td>
<td>HISTORY OF THE UNITED STATES TO 1877</td>
<td>5</td>
<td>American civilization through 1877. Survey of United States History. Political, economic and social development.</td>
</tr>
<tr>
<td>HIST 17B</td>
<td>HISTORY OF THE UNITED STATES FROM 1877</td>
<td>5</td>
<td>American civilization from 1877 through the present. Survey of United States History and its political, economic and social development.</td>
</tr>
<tr>
<td>HIST 17C</td>
<td>HISTORY OF THE UNITED STATES</td>
<td>5</td>
<td>American civilization since 1877. Survey of United States History. Political, economic and social development.</td>
</tr>
<tr>
<td>HIST 18</td>
<td>INTRODUCTION TO MIDDLE EASTERN CIVILIZATION</td>
<td>4</td>
<td>Civilizations of the Middle East. History of the region, concentrating on the 19th and 20th and 21st centuries. European colonization, culture, institutions and religion. Political, economic, and social development of the area.</td>
</tr>
<tr>
<td>HIST 19</td>
<td>HISTORY OF ASIA: CHINA/JAPAN</td>
<td>4</td>
<td>Political, social and economic development of China and Japan. Emphasis on impact of Western culture and problems of political and economic modernization.</td>
</tr>
<tr>
<td>HIST 20</td>
<td>HISTORY OF RUSSIA &amp; THE SOVIET UNION</td>
<td>4</td>
<td>Russian political and social development from the 10th Century to the present. Emphasis on post-revolutionary Russia and problems of authoritarian modernization, independence, political and economic integration and industrialization.</td>
</tr>
<tr>
<td>HIST 21</td>
<td>HISTORY OF EUROPE</td>
<td>4</td>
<td>Chronological and topical survey of European History. World War I and the consequences of Versailles, Bolshevik Revolution and rise of Communism, Italian Fascism and German Nazism. The diplomacy of World War II, Cold War, and current developments in Western and Eastern Europe. Global impacts. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions.</td>
</tr>
<tr>
<td>HIST 22</td>
<td>INTRODUCTION TO AFRICAN HISTORY</td>
<td>4</td>
<td>Enhanced comprehensive study of Roman History from the founding of Rome to the reign of Constantine. Emphasis upon the political, social, economic development in the Late Republic and Empire. Consideration of literature, art, architecture, texts in translation.</td>
</tr>
<tr>
<td>HIST 23A</td>
<td>INTRODUCTION TO AFRICAN HISTORY TO 1800</td>
<td>4</td>
<td>Survey of Indian, Spanish and Mexican periods. Analysis of role and issues of ethnic/racial minorities during six major historical periods: gold rush, railroad era, Great Depression, World War II, turbulent ’60s and present era.</td>
</tr>
<tr>
<td>HIST 24</td>
<td>20TH CENTURY AMERICAN FOREIGN POLICY</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
</tr>
<tr>
<td>HIST 25</td>
<td>HISTORY OF ASIA</td>
<td>4</td>
<td>Cultural, political, and economic development of the area.</td>
</tr>
<tr>
<td>HIST 26</td>
<td>HISTORY OF THE MIDDLE EAST</td>
<td>4</td>
<td>Cultural, political, and economic development of the area.</td>
</tr>
<tr>
<td>HIST 27</td>
<td>HISTORY OF CONTEMPORARY EUROPE</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
</tr>
<tr>
<td>HIST 28</td>
<td>HISTORY OF RUSSIA &amp; THE SOVIET UNION</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
</tr>
<tr>
<td>HIST 29</td>
<td>HISTORY OF ASIA: CHINA/JAPAN</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
</tr>
<tr>
<td>HIST 30</td>
<td>HISTORY OF RUSSIA &amp; THE SOVIET UNION</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
</tr>
<tr>
<td>HIST 31</td>
<td>HISTORY OF ASIA: CHINA/JAPAN</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
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<tr>
<td>HIST 32</td>
<td>HISTORY OF RUSSIA &amp; THE SOVIET UNION</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
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<tr>
<td>HIST 33</td>
<td>HISTORY OF ASIA: CHINA/JAPAN</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
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<tr>
<td>HIST 34</td>
<td>HISTORY OF RUSSIA &amp; THE SOVIET UNION</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
</tr>
<tr>
<td>HIST 35</td>
<td>HISTORY OF ASIA: CHINA/JAPAN</td>
<td>4</td>
<td>Political, economic, and social development of the area.</td>
</tr>
</tbody>
</table>
HIST 36  SPECIAL PROJECTS IN HISTORY  1 Unit
HIST 36X  2 Units
HIST 36Y  3 Units
HIST 36Z  4 Units
Any combination of HIST 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.

One hour lecture for each unit of credit.
Advanced readings, research and/or project in History. Specific topics determined in consultation with instructor.

HUMAN PERFORMANCE
Athletics & Human Performance Division  (650) 949-7222  www.foothill.edu/ath/

H P 1  INTRODUCTION TO PHYSICAL EDUCATION AS A PROFESSION  4 Units
Four hours lecture.
Introduction to the general nature of the physical education profession and its related fields of health, recreation and athletics.

H P 1B  SPORT IN SOCIETY  4 Units
Four hours lecture.
This course looks at current and past sports related cultural and historical issues and practices to study the role of sport in society.

H P 2X  LIFETIME FITNESS  1 Unit
H P 2Y  2 Units
H P 2Z  3 Units
Any combination of HP 2X, 2Y & 2Z may be taken six times for credit.
Three hours laboratory for each unit of credit.
Exercise, physical and recreational activities are used to promote health benefits, develop fitness and enhance performance.

HP 32G  THIGHS, ABS & GLUTEUS (TAG)  1 Unit
May be taken six times for credit.
Three hours laboratory.
This course is designed to strengthen thigh, abdominal and gluteus muscles in an intensive, fun and highly energized workout.

H P 3B  FUNCTIONAL FITNESS FOR LIFE  1 Unit
May be taken six times for credit.
Three hours laboratory.
This lecture laboratory course addresses the needs of today’s population asking for practical functional exercises to promote fitness and health. Theory and exercise addressing musculo-skeletal anatomy, core stabilization, balance, flexibility, strength, posture, cardio-vascular endurance, muscle endurance, nutrition and body composition.

H P 3C  BOOT CAMP TRAINING  3 Units
May be taken six times for credit.
Three hours laboratory.
This course is designed for students who want an annual program in which group training uses functional fitness activities to develop core strength, cardiovascular conditioning and muscle strength and power.

H P 4  ATHLETIC OFFICIATING  3 Units
Two hours lecture, three hours laboratory.
Rules and mechanics of officiating interscholastic, intercollegiate and professional athletics.

H P 5  WATER SAFETY INSTRUCTOR  4 Units
Three hours lecture, three hours laboratory.
An American Red Cross course to prepare students to teach swimming and safety in and around the water. Emphasis on development of skills, safety practices, and guidance in teaching, organizing and supervising a water safety program for all levels of swimming and water exercise programs from the age of six months. The American Red Cross Water Safety Instructor certificate is awarded upon successful completion of the course.

H P 8A  INTERMEDIATE/ADVANCED WATER POLO  1 Unit
May be taken six times for credit.
Four hours laboratory.
Intermediate/advanced water polo for competitive play. Includes covering drills, strategies, techniques and rules.

H P 9A  EXERCISE PRINCIPLES OF LIFETIME FITNESS  1 Unit
May be taken six times for credit.
Four hours laboratory.
Introduction and applications of components related to health and performance fitness. Includes individual fitness assessment and exercise program planning.

HIST 36X  SPECIAL PROJECTS IN HISTORY  2 Units
HIST 36Y  3 Units
HIST 36Z  4 Units
Any combination of HIST 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.

Four hours laboratory.
Intermediate and advanced water polo for competitive play. Includes covering drills, strategies, techniques and rules.

H P 9A  LIFETIME WELLNESS ACTIVITIES  1 Unit
May be taken six times for credit.
Three hours laboratory.
Introduction and participation in a program using selectorized weight training machines designed to develop and improve strength and aerobic conditioning for lifetime health related fitness.

H P 10  BEGINNING & INTERMEDIATE SWIMMING  1 Unit
May be taken six times for credit.
Four hours laboratory.
Introduction to swimming or a continuation of development of swim and safety skills beyond the beginning phase. Includes physical and mental adjustment to water, buoyancy and body position, survival skills, and the basic swim strokes.

H P 10B  AQUATIC FITNESS  1 Unit
May be taken six times for credit.
Four hours laboratory.
An aerobics water fitness program applying the basic principles of exercises, dynamics of water movement, and the biomechanical principles and forces involving movement in the water.

H P 10BS  AQUATIC FITNESS  .5 Unit
May be taken six times for credit.
Two hours laboratory.
An aerobics water fitness program applying the basic principles of exercises, dynamics of water movement, and the biomechanical principles and forces involving movement in the water.

H P 10C  AQUACIZE  1 Unit
May be taken six times for credit.
Four hours laboratory.
Aerobics water fitness program applying the basic principles of exercises, dynamics of water movement, and the biomechanical principles and forces involving movement in the water.

H P 10CS  AQUACIZE  .5 Unit
May be taken six times for credit.
Two hours laboratory.
Aerobics water fitness program applying the basic principles of exercises, dynamics of water movement, and the biomechanical principles and forces involving movement in the water.

H P 11  BEGINNING SPRINGBOARD DIVING  1 Unit
May be taken six times for credit.
Three hours laboratory.
Introduction to springboard diving using a combination of tumbling and dryland exercises to train for the spring board 1 meter and/or 3 meter board. Includes approach steps on the boards, various physical maneuvers while in the air and proper body position for entry to the water.

H P 12  LIFEGUARD TRAINING  4 Units
Three hours lecture, three hours laboratory.
A Red Cross certificate or approved course to prepare the student to carry out all the duties and responsibilities of a non-surf lifeguard. Emphasis on skills and concepts designed to prevent accidents and to rescue others in the water.

H P 13  MASTER'S SWIMMING/ADVANCED SWIM TRAINING  2 Units
May be taken six times for credit.
Six hours laboratory.
Advanced program of swim strokes, competitive turns and endurance training.
A structured training class in the use of weights for strength and fitness.
Three hours laboratory.
An introduction to step aerobics. Emphasis is placed on developing, maintaining and/or improving flexibility, strength and cardiovascular endurance.

H P 14B STEP AEROBICS  1 Unit
May be taken six times for credit.

H P 14C AEROBICS CIRCUIT TRAINING  1 Unit
May be taken six times for credit.

H P 14D STEP & SCULPT  1 Unit
May be taken six times for credit.

H P 14F CARDIO STRENGTH & SCULPT  1 Unit
May be taken six times for credit.

H P 16 WALK FOR HEALTH  1 Unit
May be taken six times for credit.

H P 16A GENERAL CONDITIONING  1 Unit
May be taken six times for credit.

H P 16B SKI CONDITIONING  1 Unit
May be taken six times for credit.

H P 16D SURVIVOR TRAINING  1 Unit
May be taken six times for credit.

H P 17 HEALTH & FITNESS ACTIVITIES  1 Unit
2 Units
3 Units
Any combination of HP 17, 17W and 17X may be taken six times for credit.

H P 19 WEIGHT TRAINING  1 Unit
May be taken six times for credit.

H P 19A BEGINNING WEIGHT TRAINING  1 Unit
Three hours laboratory.

H P 19F CORE FLOW: STRENGTH  1 Unit
May be taken six times for credit.

H P 21 STRETCHING & FLEXIBILITY  1 Unit
May be taken six times for credit.

H P 21C FUNDAMENTALS OF FLEXIBILITY  1 Unit
May be taken six times for credit.

H P 21D INTERMEDIATE STRETCHING & FLEXIBILITY  1 Unit
May be taken six times for credit.

H P 22 HIKING FOR FITNESS  1 Unit
May be taken six times for credit.

H P 22A DAY HIKING  1.5 Units
May be taken six times for credit.

H P 22B MULTI-DAY HIKING  2 Units
May be taken six times for credit.

H P 22C SEASONAL MULTI-DAY HIKING  .5 Unit
May be taken six times for credit.

H P 23 ARCHERY  1 Unit
May be taken six times for credit.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008  www.foothill.edu
H P 23A INDOOR ARCHERY 1 Unit
May be taken six times for credit.
Three hours laboratory.
Introduction to the sport of archery. Emphasis will be placed on instinctive shooting, scoring, terminology, safety and etiquette.

H P 24 BADMINTON 1 Unit
May be taken six times for credit.
Three hours laboratory.
Introduction to the History, terminology, skills, strategy, and techniques fundamental to badminton.

H P 24A TOURNAMENT BADMINTON 1 Unit
May be taken six times for credit.
Three hours laboratory.
Training for locally and nationally sanctioned tournaments at an intermediate and advanced level of play.

H P 25 BEGINNING GOLF 1 Unit
May be taken six times for credit.
Four hours laboratory.
Includes basic rules of the game, terminology, techniques and fundamentals of the swing, knowledge of equipment and course etiquette.

H P 25A INTERMEDIATE GOLF 1 Unit
May be taken six times for credit.
Three hours laboratory.
A continuation in the development of golf skills beyond the beginning level. Includes swing fundamentals, information concerning selection and care of equipment, rules, course etiquette, course management, and the mental game.

H P 25B ADVANCED GOLF 1 Unit
May be taken six times for credit.
Three hours laboratory.
A continuation in the development of golf skills beyond the intermediate level. Includes a review of basic swing fundamentals, information concerning selection and care of equipment, club making, rules, course etiquette, course management, and the mental game.

H P 25C TOURNAMENT GOLF 1 Unit
H P 25CX 2 Units
Any combination of H P 25C & 25CX may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
Golf conducted in a tournament format. Includes several types of match play at various municipal courses.

H P 25D GOLF: ONE-ON-ONE 1 Unit
H P 25DX 2 Units
H P 25DY 2 Units
Any combination of H P 25D, 25DX & 25DY may be taken a maximum of six times for credit.
Three hours laboratory.
In-depth analysis of the golf swing using Swing Solutions video instruction technology. Detector units are automatically swing-activated to start the camera, showing images of the club head at impact, head speed, ball speed, tempo and ball/club angle at impact. A 27-inch touch screen monitor allows for immediate large-scale viewing and uninterrupted self-instruction without leaving the hitting mat.

H P 25E TOTAL GOLF 1 Unit
H P 25EX 2 Units
Any combination of H P 25E & 25EX may be taken a maximum of six times for credit.
Three hours laboratory.
Development of golf skills beyond the intermediate level. Introduction to golf specific stretching, strength and balance exercises. In-depth individual swing analysis using state-of-the-art three-way camera equipment. Includes a review of swing fundamentals, rules, course etiquette, course management and the mental game.

H P 25F SHORT COURSE RANGE/TOURNAMENT GOLF COURSE 1 Unit
May be taken six times for credit.
Three hours laboratory.
Intermediate/advanced individual and group instruction on golf swing skills plus tournament play on local par three courses.

H P 25G GOLF SCHOOL 1.5 Units
May be taken six times for credit.
One-half hour lecture, three hours laboratory.
Individual and small group golf instruction for peak performance. Appropriate for any level player. Weekly range practice and off-campus 9-hole play by arrangement.

H P 25TG GOLF COURSE EXPERIENCE 2 Units
May be taken six times for credit.
Six hours laboratory.
Students will play an 18-hole golf course and utilize the knowledge and skills developed in beginning, intermediate and advanced golf.

H P 26 BEGINNING TENNIS 1 Unit
May be taken six times for credit.
Three hours laboratory.
Introduction to beginning tennis play including basic strokes, drills, rules and etiquette.

H P 26A INTERMEDIATE/ADVANCED TENNIS 1 Unit
May be taken six times for credit.
Three hours laboratory.
Intermediate/advanced tennis for competitive play includes covering drills, strategies, techniques and rules.

H P 26B DOUBLES TENNIS 1 Unit
May be taken six times for credit.
Three hours laboratory.
Introduction to doubles tennis play. Includes basic court positions, skill drills, and offensive and defensive strategies.

H P 26C TOURNAMENT TENNIS 2 Units
May be taken six times for credit.
Six hours laboratory.
Development of skill proficiency by participating in tournament play.

H P 26D TENNIS: A CARDIO WORKOUT 1 Unit
Three hours laboratory.
Designed to develop aerobic endurance using fun, challenging, skill and fitness activities set to music on a tennis court. No tennis experience required.

H P 27 BASKETBALL 1 Unit
May be taken six times for credit.
Three hours laboratory.
An introduction to the fundamental skills and strategies of the team sport of basketball. Skill work drills and full-court tournament play.

H P 27A ADVANCED TOURNAMENT BASKETBALL 1 Unit
May be taken six times for credit.
Three hours laboratory.
Includes tournament play with an emphasis on team offensive and defensive basketball systems.

H P 27B INTERMEDIATE BASKETBALL 1 Unit
May be taken six times for credit.
Three hours laboratory.
Tournament play plus an individual emphasis on intermediate skill development and the techniques of team play. Course is designed to get students ready for the advanced tournament class.

H P 27C SLOW PITCH SOFTBALL 1 Unit
May be taken six times for credit.
Three hours laboratory.
Coeducational games with instruction in throwing, fielding and hitting.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H P 29</td>
<td>SOCCER</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Soccer class developing basic skills such as passing, shooting, dribbling and heading. Includes game strategy, tactics, and laws of the game.</td>
</tr>
<tr>
<td>H P 29A</td>
<td>INDOOR SOCCER</td>
<td>1</td>
<td>Three hours laboratory. Introduction in the fundamental skills and strategies for indoor soccer. Includes rules and an opportunity for active participation in game situations.</td>
</tr>
<tr>
<td>H P 30</td>
<td>BEGINNING VOLLEYBALL</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Introduction to the game of volleyball. Includes basic skills, strategy, and team play.</td>
</tr>
<tr>
<td>H P 30A</td>
<td>INTERMEDIATE/ADVANCED VOLLEYBALL</td>
<td>1</td>
<td>Three hours laboratory. Emphasis on advanced passing skills, defensive skills, middle hitting and hitting play sets. Introduction of 6-2 defense. Drills and practice sessions to prepare students for better participation and team play.</td>
</tr>
<tr>
<td>H P 31</td>
<td>SELF-DEFENSE</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. A program designed to develop the skill, knowledge, stamina and attitude to defend oneself properly in a variety of situations.</td>
</tr>
<tr>
<td>H P 31A</td>
<td>SELF-DEFENSE FOR WOMEN</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Emphasis on women's self-defense. Includes skills, psychology, strategy, tactics and conditions for self-protection and rape defense.</td>
</tr>
<tr>
<td>H P 31C</td>
<td>CARDIO KICKBOXING</td>
<td>1</td>
<td>May be taken three times for credit. Three hours laboratory. Introduction to the basic skills and mechanics of kickboxing for fitness. Total cardiovascular workout emphasizing footwork, body mechanics, punching and kicking combinations and basic offensive and defensive techniques.</td>
</tr>
<tr>
<td>H P 32</td>
<td>BEGINNING MODERN DANCE</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. This course is designed to develop the student's ability to integrate expressive body movement in a creative dance form. Fundamental modern dance locomotor and axial movement are presented and practiced in class.</td>
</tr>
<tr>
<td>H P 32A</td>
<td>INTERMEDIATE/ADVANCED MODERN DANCE</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Designed to advance the student's ability to integrate expressive body movements in a creative dance form beyond the introductory level. Fundamental modern dance locomotor and axial movement techniques are presented and practiced in class.</td>
</tr>
<tr>
<td>H P 32B</td>
<td>BEGINNING BALLET</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Introduction to basic ballet technique and progressions. Includes the fundamentals of barre and center floor exercises.</td>
</tr>
<tr>
<td>H P 32C</td>
<td>INTERMEDIATE/ADVANCED BALLET</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. The study of theoretical aspects of dance movement including concepts, skills and teaching principles.</td>
</tr>
<tr>
<td>H P 32D</td>
<td>PILATES</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Stretching and strengthening exercises to strengthen and tone muscles, improve posture, flexibility and balance for a more streamlined shape.</td>
</tr>
<tr>
<td>H P 32E</td>
<td>INTERMEDIATE PILATES</td>
<td>1</td>
<td>Three hours laboratory. Intermediate level stretching and strengthening exercises to strengthen and tone muscles, improve posture, flexibility and balance for a more streamlined shape. Intermediate Pilates class is based on The Method Pilates 'Advanced Fundamentals' and 'Standing Exercises &amp; functional fitness'. Exercises are mostly standing and require knowledge, experience and proficiency with the Basic Mat exercises.</td>
</tr>
<tr>
<td>H P 32F</td>
<td>PILATES &amp; YOGA FOR STRENGTH</td>
<td>1</td>
<td>Three hours laboratory. A combination Pilates and Yoga class designed to improve strength, body control, and coordination. Resistance and stability equipment will be incorporated with abdominal, low back, and full body exercises. Students must provide their own fitness mat.</td>
</tr>
<tr>
<td>H P 32P</td>
<td>PILATES &amp; YOGA</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. This class combines basic Pilates mat exercises to strengthen abdominals with full body yoga based stretches for development of improved posture, flexibility, and relaxation. Students must provide their own fitness mat.</td>
</tr>
<tr>
<td>H P 33</td>
<td>BEGINNING JAZZ DANCE</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Introduction to the fundamental technique of jazz dance. Emphasis is placed on class participation so that students may develop their knowledge and understanding of the basic principles of jazz dancing, including warm-up, stretch, isolations and choreography.</td>
</tr>
<tr>
<td>H P 33A</td>
<td>INTERMEDIATE JAZZ DANCE</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Designed to give students an opportunity to practice and perfect intermediate jazz techniques. Emphasis on techniques presented as well as information on historical and stylistic perspectives of this dance form.</td>
</tr>
<tr>
<td>H P 33B</td>
<td>SOCIAL DANCE</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Introduction to social dance techniques. Instruction and practice in Swing, Cha-Cha, Waltz, Fox Trot, Rhumba and Tango dances.</td>
</tr>
<tr>
<td>H P 33C</td>
<td>ADVANCED JAZZ DANCE</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Technique and performance of advanced jazz dance for the advanced student. Includes preparation of dance routines for a live stage performance.</td>
</tr>
<tr>
<td>H P 33D</td>
<td>INTERMEDIATE/ADVANCED SOCIAL DANCE</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Continuation of social dance techniques. Instruction and practice in Swing, Cha Cha, Waltz, Fox Trot, Rhumba and Tango dances.</td>
</tr>
<tr>
<td>H P 34</td>
<td>CHOREOGRAPHY</td>
<td>1</td>
<td>May be taken six times for credit. Three hours laboratory. Exploration of the basic principles and theories of choreography and composition and the tools for defining the creative process.</td>
</tr>
</tbody>
</table>
H P 35B  INTERCOLLEGIATE SOCCER (WOMEN)  3 Units
May be taken four times for credit.
Fifteen hours laboratory.
Competitive intercollegiate soccer working toward personal development, athletic scholarship, and career opportunities.

H P 35C  INTERCOLLEGIATE VOLLEYBALL (WOMEN)  3 Units
May be taken four times for credit.
Fifteen hours laboratory.
Competitive intercollegiate volleyball working toward personal development, athletic scholarship, and career opportunities.

H P 35D  INTERCOLLEGIATE BASKETBALL (WOMEN)  3 Units
May be taken four times for credit.
Fifteen hours laboratory.
Competitive basketball for women athletes with advanced high school experience.

H P 35E  INTERCOLLEGIATE TENNIS (WOMEN)  3 Units
May be taken four times for credit.
Fifteen hours laboratory.
Competitive intercollegiate tennis working toward personal development, athletic scholarship, and career opportunities.

H P 35F  INTERCOLLEGIATE SOFTBALL (WOMEN)  3 Units
May be taken four times for credit
Fifteen hours laboratory.
Competitive intercollegiate softball for experienced athletes.

H P 35G  INTERCOLLEGIATE GOLF (WOMEN)  3 Units
May be taken four times for credit.
Fifteen hours laboratory.
A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in competition.

H P 35H  INTERCOLLEGIATE SWIMMING (WOMEN)  3 Units
May be taken four times for credit.
Fifteen hour laboratory.
Competitive intercollegiate swimming working toward personal development, athletic scholarship, and career opportunities.

H P 35K  PRE-SEASON CONDITIONING FOR WOMEN  2 Units
May be taken six times for credit.
Six hours lecture-laboratory.
A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in intercollegiate athletics.

H P 36  WRESTLING  1 Unit
May be taken six times for credit.
Four hours laboratory.
Development and practice of the basic wrestling skills. Includes conditioning programs and strategic tactics.

H P 37  THEORIES & TECHNIQUES OF COACHING SPORTS  4 Units
Four hours lecture.
Instruction in the theories and techniques of coaching sport and its variables which contribute to team performance and success. This course addresses developing a coaching philosophy, sport psychology, sport pedagogy, sport physiology and sport management.

H P 38  AEROBIC INSTRUCTOR TRAINING CERTIFICATION  2 Units
Four hours lecture-laboratory.
Developed to help students develop practical skills necessary to teach an aerobic dance-exercise class. Emphasis on sound teaching strategies and new trends within the industry.

H P 39  BEGINNING ROCK CLIMBING  1 Unit
May be taken six times for credit.
Four hours laboratory.
Introduction to the fundamental skills and safety system of rock climbing learned on an indoor wall. Practice of climbing movement for the development of concentration, timing, balance, flexibility, and strength. Emphasis on developing skills for top-rope climbing on artificial walls.

H P 39A  INTERMEDIATE ROCK CLIMBING  1 Unit
May be taken six times for credit.
Three hours laboratory.
Development of the intermediate skills of indoor and outdoor rock climbing. Emphasis on developing climbing and descending techniques for outdoor real rock. Course includes two one-day sessions of climbing in the Santa Cruz Mountains and a weekend climbing in or near Yosemite.

H P 39C  ANCHORING FOR ROCK CLIMBING  1 Unit
May be taken three times for credit.
Three hours laboratory.
Securing rope systems to rock walls with natural and artificial anchors, including runners, nuts, cams, pitons and bolts.

H P 39D  INTERMEDIATE MOUNTAINEERING  1 Unit
May be taken six times for credit.
Three hours laboratory.
Building skills for living above timberline and climbing the rock, snow and ice of the high Sierra. Emphasis on developing mountaineering skills during an extended high mountain trip.

H P 39E  INTRODUCTION TO MOUNTAIN GUIDING  3 Units
May be taken three times for credit.
One hour lecture, six hours laboratory.
Development of client-centered rapport, leadership and teaching skills appropriate to rock climbing and mountaineering.

H P 40  INTRODUCTION TO MOUNTAINEERING  2 Units
May be taken three times for credit.
One hour lecture, three hours laboratory.
Introduction to the mountain environment and the tools and techniques of mountaineering. Emphasis on developing mountaineering skills that culminate in the ascent of a peak.

H P 40B  INTERCOLLEGIATE SOCCER (MEN)  3 Units
May be taken four times for credit.
Fifteen hours lecture-laboratory.
Competitive intercollegiate soccer working toward personal development, athletic scholarship and career opportunities.

H P 40C  INTERCOLLEGIATE FOOTBALL (MEN)  3 Units
May be taken six times for credit.
Fifteen hours lecture-laboratory.
Competitive football for those student athletes who have had high school experience.

H P 40D  INTERCOLLEGIATE BASKETBALL (MEN)  3 Units
May be taken four times for credit.
Fifteen hours lecture-laboratory.
Competitive intercollegiate basketball working toward personal development, athletic scholarship and career opportunities.

H P 40E  INTERCOLLEGIATE TENNIS (MEN)  3 Units
May be taken four times for credit.
Fifteen hours lecture-laboratory.
Competitive tennis for student athletes who have had extensive high school or club tennis.

H P 40G  INTERCOLLEGIATE GOLF (MEN)  3 Units
May be taken four times for credit.
Fifteen hours lecture-laboratory.
Competitive intercollegiate golf working toward skill development, athletic scholarship and career opportunities.
H P 40H  INTERCOLLEGIATE SWIMMING (MEN & WOMEN)  3 Units
May be taken four times for credit.
Fifteen hours lecture-laboratory.
Competitive intercollegiate swimming program for student athletes.

H P 40J  INTERCOLLEGIATE TRACK & FIELD (MEN & WOMEN)  3 Units
May be taken four times for credit.
Fifteen hours lecture-laboratory.
Competitive intercollegiate track and field working toward personal development, athletic scholarship and career opportunities.

H P 40K  INTERCOLLEGIATE WATER POLO  3 Units
May be taken three times for credit.
Fifteen hours lecture-laboratory.
Competitive intercollegiate water polo working toward personal development, athletic scholarship and career opportunities.

H P 40L  INTERCOLLEGIATE PRE-SEASON CONDITIONING  2 Units
May be taken six times for credit.
Six hours lecture-laboratory.
A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in intercollegiate athletics.

H P 40P  INTERCOLLEGIATE DANCE PERFORMANCE  3 Units
May be taken six times for credit.
Fifteen hours lecture-laboratory.
Supervised participation in scheduled productions of the dance department, in cast or crew. A laboratory course for the resident and touring company of the college, including instruction on the how to of a full-scale theatrical production for public performance.

H P 44  BEGINNING YOGA  1 Unit
May be taken six times for credit.
Three hours lecture.
Introduction to the discipline of yoga. Emphasis on the practice and demonstration of the beginning postures and the usage of yoga for stress management and exercise.

H P 44A  INTERMEDIATE YOGA  1 Unit
May be taken six times for credit.
Three hours laboratory.
Intermediate yoga training, skills and techniques; independent, group, and personalized training; individual yoga and group interaction yoga.

H P 44B  THERAPEUTIC YOGA  1 Unit
May be taken six times for credit.
Three hours laboratory.
Designed for those with specific ailments and limitations, or struggling with the aging process. Slow and gentle introductory yoga training, skills, and techniques with the goal of restoration and revitalization. Independent, group and personalized training will be offered.

H P 44H  FUNDAMENTS OF HATHA YOGA  4 Units
Four hours lecture.
Fundamentals of Hatha Yoga is an in-depth survey and scientific analysis of the techniques and principles of various styles of Hatha Yoga. Ideal for instructors preparing for certification, and students wishing to deepen their personal practice.

H P 44P  POWER YOGA  1 Unit
May be taken six times for credit.
Three hours laboratory.
Power Yoga is a combination of the traditional forms of yoga woven into one powerful all-inclusive practice. Postures are combined into a vigorous, flowing series, linking one movement to the next, building strength, flexibility, and endurance.

H P 44V  VINYASA FLOW YOGA  1 Unit
May be repeated six times for credit.
Three hours laboratory.
Vinyasa yoga is a form of traditional hatha yoga that focuses on integrating breath and movement, awareness and alignment, strength, and flexibility. Vinyasa uses six discrete series of sequences of advancing difficulty with repeated closing sections between each sequence. Each variation is linked to the next one by a succession of specific transitional movements. Likened to a dynamic dance, postures or asanas are connected through the breath for a transformative and balancing effect. The Vinyasa practice ranges from slow flowing to fast aerobic, developing strength and endurance.

H P 46  MOUNTAIN BIKING  1 Unit
May be taken six times for credit.
Four hours laboratory.
This course is designed to improve mountain biking techniques, training methods and bike maintenance skills. Includes emphasis on cross country, dual slalom, and downhill events.

H P 46B  INDOOR CYCLING-SPIN  1 Unit
May be taken six times for credit.
Three hours laboratory.
An indoor cycling program to enhance cardiovascular fitness and improve cycling techniques. Emphasis will be on improving endurance through non-impact activity.

H P 47  BEGINNING COUNTRY-WESTERN LINE DANCING  1 Unit
May be taken six times for credit.
Four hours laboratory.
Introduction to the fundamental skills for Country and Western Line Dancing. Students will participate in a variety of dance steps designed to develop the coordination, skill, choreography and timing necessary for social line dancing.

H P 47C  INTERMEDIATE LINE DANCING  1 Unit
May be taken six times for credit.
Three hours laboratory.

H P 47D  WORLD DANCE  1 Unit
May be taken six times for credit.
Three hours laboratory.

H P 48  CONCEPTS OF PHYSICAL FITNESS & WELLNESS  4 Units
Four hours lecture.
Study of physical fitness, training principles, appropriate exercise and health practices with application to lifelong health and exercise habits.

H P 49  IN-LINE SKATING  1 Unit
May be taken six times for credit.
Three hours laboratory.
Introduction of the discipline of in-line skating. Emphasis on the demonstration, application and practice of in-line skating techniques and skills.

H P 52  DANCE PRODUCTION: REHEARSAL & PERFORMANCE  2 Units
May be taken six times for credit.
Six hours laboratory.
Foothill repertory and touring dance company. Students gain professional- and advance-level technique training in various dance disciplines and work with master guest artists.

H P 52A  CLINICAL EXPERIENCES IN SPORTS MEDICINE I  3 Units
May be taken three times for credit.
Nine hours lecture-laboratory.
Hands-on experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Observation of orthopedic surgical procedures with the permission of the team physician is available.


**H P 62A BEGINNING TAP DANCE** 1 Unit  
May be taken three times for credit.  
Three hours laboratory.  
Introduction to the basic technique of tap dance. Emphasis is placed on developing the elementary steps of tap dance as well as increasing the student’s body awareness, rhythm, coordination and style.

**H P 62B INTERMEDIATE TAP DANCE** 1 Unit  
May be taken three times for credit.  
Three hours laboratory.  
Development of the intermediate technical skills of tap dance. Emphasis is placed on increased difficulty of tap technique, including time steps, rifts and choreography.

**H P 62C ADVANCED TAP DANCE** 1 Unit  
May be taken three times for credit.  
Three hours laboratory.  
Students will further increase their technical skill in advance tap terminology, rhythm, flash and percussive tap forms. Individual, interpretive and original choreography will be emphasized.

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**H P 63 DEEP WATER RUNNING** 1 Unit  
May be taken six times for credit.  
Three hours laboratory.  
A unique non-impact form of aquatic exercise designed to improve cardiovascular endurance, muscular strength, endurance, and flexibility while wearing a flotation belt to maintain an upright position in deep water.

**H P 64 BEGINNING BOWLING** 1 Unit  
May be taken six times for credit.  
Three hours laboratory.  
A study of beginning bowling skills incorporating kinesthetic awareness, body movement, rhythm, and timing.

**H P 66 TOTAL FITNESS** 1 Unit  
May be taken six times for credit.  
Three hours laboratory.  
A program for developing total fitness in flexibility, strength, and cardiovascular conditioning through stretching, weight training and aerobic exercise.

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All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

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H P 83  TAI CHI  1 Unit
May be taken six times for credit.
Three hours laboratory.
Introduction to the internal martial art of Tai Chi. Includes practice and discussion of fundamental Tai Chi exercises and its relationship to mind-body awareness.

H P 83B  ADVANCED TAI CHI  1 Unit
May be taken six times for credit.
Three hours laboratory.
Advanced instruction of the internal martial art of Tai Chi. Includes continued instructor demo observation, practice and assistance to HP 83 students on the fundamental Tai Chi principles and their relationship to mind-body awareness.

H P 84  BEGINNING KARATE  .5 Unit
Any combination of H P 84 & 84X may be taken a maximum of six times for credit.
Two hours laboratory.
Introduction to beginning skills and techniques of karate. Includes punching, blocking, striking and kicking techniques.

H P 84A  INTERMEDIATE KARATE  1 Unit
May be taken six times for credit.
Three hours laboratory.
Intermediate karate skills and techniques. Analysis and application of biomechanics, individual and group interaction, and uses of karate.

H P 100  FITNESS/HEALTH ASSESSMENT I  1 Unit
Non-degree applicable credit course.
May be taken six times for credit.
Three hours lecture laboratory.
Fitness assessment techniques employing individual fitness profiles, developed along with nutritional recommendations.

H P 103  TOURNAMENT GOLF FIELD TRIP  1 Unit
May be taken six times for credit.
Three hours laboratory.
A travel/study approach to the game of golf. On-site opportunities to practice and play at some of the best golf courses in this country and internationally will enhance the student’s skill, knowledge and understanding of golf rules, etiquette and strategies. All costs are borne by the student.

H P 107  ADVANCED TOURNAMENT GOLF  1 Unit
Non-degree applicable credit course.
May be taken six times for credit.
Six hours laboratory.
On course tournament play on a regulation length local eighteen hole course. All students must demonstrate at least an intermediate level of golfing skill. On course playing lessons will be included. Students will be exposed to many different tournament formats.

H P 109  GOLF TRAVEL  2 Units
May be taken six times for credit.
Six hours laboratory.
Travel to chosen golf resorts for tournament play on championship caliber courses and sightseeing exposure to other domestic and international areas. All students must be able to perform at an intermediate level of play.

H P 124  TOURNAMENT BADMINTON  1 Unit
May be taken six times for credit.
Three hours laboratory.
Training for locally and nationally sanctioned tournaments at an intermediate and advanced level of play.

H P 125F  SHORT COURSE TOURNAMENT/RANGE GOLF  1 Unit
Non-degree applicable credit course.
May be taken six times for credit.
Three hours laboratory.
Intermediate/Advanced individual and group instruction on golf swing skills plus tournament play on local par three courses.

H P 127  TOURNAMENT BASKETBALL  1 Unit
Non-degree applicable credit course.
May be taken six times for credit.
Three hours laboratory.
An introduction to the fundamental skills and strategies of the team sport of basketball. Skill work drills and full court tournament play.

H P 127B  INTERMEDIATE BASKETBALL  1 Unit
Non-degree applicable credit course.
May be taken six times for credit.
Three hours laboratory.
Tournament play plus an individual emphasis on intermediate skill development and the techniques of team play. Course is designed to get students ready for the advanced tournament class.

H P 129  TOURNAMENT SOCCER  1 Unit
May be taken six times for credit.
Three hours laboratory.
Participation in tournament soccer competition at an intermediate and advanced level of play.

H P 130  TOURNAMENT VOLLEYBALL  1 Unit
May be taken six times for credit.
Three laboratory.
Tournament volleyball competition at an intermediate and advanced level of play. Includes team play, setting, attacking and blocking.

HUMANITIES

Language Arts Division  (650) 949-7556
www.foothill.edu/la/

HUMN 1A  HUMANITIES & THE MODERN EXPERIENCE  4 Units
Four hours lecture, one hour laboratory.
An interdisciplinary survey of some of the cultural aspects of major civilizations from the Italian Renaissance to the present day, and their influence upon modern experiences. Illustrations of the cultural diversity which makes up modern life. Attendance at instructor approved lectures, performing arts events, and/or cultural exhibitions.

HUMN 1B  HUMANITIES & THE MODERN EXPERIENCE  4 Units
Four hours lecture, one hour laboratory.
An interdisciplinary survey of some of the cultural aspects of major civilizations from the Italian Renaissance to the present day, and their influence upon modern experiences. Illustrations of the cultural diversity which makes up modern life. Attendance at instructor approved lectures, performing arts events, and/or cultural exhibitions.

HUMN 34  HONORS INSTITUTE SEMINAR IN HUMANITIES  1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions, and projects in humanities. Specific topics to be determined by the instructor.

HUMN 36  SPECIAL PROJECTS IN HUMANITIES  1 Unit
HUMN 36X  2 Units
HUMN 36Y  3 Units
Any combination of HUMN 36, 36X & 36Y may be taken for a maximum of eight units.
One hour lecture for each unit of credit.
Intensive study of selected topics in humanities or interdisciplinary courses in humanities. Subjects may vary from quarter to quarter.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008  www.foothill.edu
ITIAN

Language Arts Division (650) 949-7250 www.foothill.edu/la/

ITAL 10 ITALIAN LANGUAGE & CULTURE 2.5 Units
Two and one-half hours lecture, one hour laboratory.
Introduction to the Italian language with an emphasis on the active use of practical Italian in simple everyday situations. Basic grammar, vocabulary and pronunciation, with frequent small group conversations. Introduction to Italian culture with emphasis on cultural diversity within Italy and between Italian and American cultures.

ITAL 11 ITALIAN LANGUAGE & CULTURE 2.5 Units
Prerequisite: ITAL 10.
Two and one-half hours lecture, one hour laboratory.
Intermediate-level course designed to further deepen students’ ability to communicate in Italian on a variety of topics. Emphasis on the active use of Italian in conjunction with acquisition of the four language skills. Particular attention given to the use of tenses. Increased knowledge and understanding of Italy, its customs, its regional differences, and its History.

ITAL 12 ITALIAN LANGUAGE & CULTURE 2.5 Units
Prerequisite: ITAL 11.
Two hours lecture, two hours laboratory.
Continued practice in grammar, conversation, and composition at an advanced intermediate level. Greater emphasis on refining complex grammatical points. Increased oral and written fluency through exposure to more advanced reading texts and more challenging conversational exercises. Focus on Italy’s people, culture, and History for the introduction of lexical themes.

ITAL 13 ITALIAN LANGUAGE & CULTURE 2.5 Units
Prerequisite: ITAL 12.
Two hours lecture, two hours laboratory.
Continued practice in grammar, conversation, and composition at an advanced intermediate level. Greater emphasis on refining complex grammatical points. Increased oral and written fluency through exposure to more advanced reading texts and more challenging conversational exercises. Focus on Italy’s people, culture, and History for the introduction of lexical themes.

JAPANESE

Language Arts Division (650) 949-7043 www.foothill.edu/la/

JAPN 1 ELEMENTARY JAPANESE 5 Units
Five hours lecture, two hours laboratory.
Oral and written practice in the minimum competencies in language functions: vocabulary essential to basic communicative situations, grammar necessary for carrying out functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Introduction to Hiragana, Katakana and about 80 Kanji. Language laboratory practice. [CAN JAPN SEQ A = JAPN 1+2+3]

JAPN 2 ELEMENTARY JAPANESE 5 Units
Prerequisite: JAPN 1 or one year of high school Japanese.
Five hours lecture, two hours laboratory.
Further development of material presented in JAPN 1. Oral and written practice in competencies in language functions: vocabulary essential to daily communicative situations, grammar necessary for carrying out functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Distinguishing formal and informal styles. Additional 120 Kanji pronunciation and recognition. Language laboratory practice. [CAN JAPN SEQ A = JAPN 1+2+3]

JAPN 3 ELEMENTARY JAPANESE 5 Units
Prerequisite: JAPN 2 or two years of high school Japanese.
Five hours lecture, two hours laboratory.
Further development of material presented in JAPN 1 and 2. Oral and written practice in competencies in language functions: vocabulary essential to daily communicative situations, grammar necessary for carrying out various functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Distinguishing formal and informal styles, and using honorifics. Making suppositions. Additional 120 Kanji pronunciation and recognition. Language laboratory practice. [CAN JAPN SEQ A = JAPN 1+2+3]

JAPN 4 INTERMEDIATE JAPANESE 5 Units
Prerequisite: JAPN 3 or three years of high school Japanese.
Five hours lecture, one hour laboratory.
Continuation of JAPN 3. Review of grammar and discussion of grammatical features beyond the elementary level. Introduction to intermediate-level grammar and communicative tasks. Intensive oral and written drills, including additional 110 Kanji, in idiomatic constructions. Composition, conversation and selected readings. Language laboratory practice. [CAN JAPN 8 = JAPN 4+5, CAN JAPN SEQ B = JAPN 4+5+6]

JAPN 5 INTERMEDIATE JAPANESE 5 Units
Prerequisite: JAPN 4 or four years of high school Japanese.
Five hours lecture, one hour laboratory.
Continuation of JAPN 4. Development of intermediate-level grammatical structures and communicative tasks. Further practice in intensive oral and written drills, including additional 150 Kanji, in idiomatic constructions. Composition, conversation and selected readings. Differentially socio-linguistic features, such as honorifics, feminine and masculine styles. Cultural skills to carry out tasks. Language laboratory practice. [CAN JAPN 8 = JAPN 4+5, CAN JAPN SEQ B = JAPN 4+5+6]

JAPN 6 INTERMEDIATE JAPANESE 5 Units
Prerequisite: JAPN 5.
Five hours lecture, one hour laboratory.
Continuation of JAPN 5. Further development of intermediate-level grammatical structures and communicative tasks. Intensive and extensive oral and written drills, including 230 more Kanji, in idiomatic constructions. Composition, conversation and selected readings. Further competency in correct language usage in different socio-linguistic features of speech. Stating and supporting opinions on both concrete and abstract topics. Cultural skills to carry out tasks. Language laboratory practice. [CAN JAPN SEQ B = JAPN 4+5+6]

JAPN 13A INTERMEDIATE CONVERSATION I 3 Units
Prerequisite: JAPN 3.
Advisory: May be taken concurrently with JAPN 4.
Three hours lecture, one hour laboratory.
Speaking and listening experience in cultural appropriate ways. Special emphasis on correct perception and speaking, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, formal and informal conversations. Understanding ambiguities, vagaries, and value inherent in the target language.

JAPN 13B INTERMEDIATE CONVERSATION II 3 Units
Prerequisite: JAPN 13A.
Advisory: May be taken concurrently with JAPN 5.
Three hours lecture, one hour laboratory.
Continuation of JAPN 13A. Speaking and listening experience in an environment of increasingly challenging language situation in culturally appropriate ways. Special emphasis on rapidity of correct perception and speaking, acquaintance with a variety of native dialects, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, and debates. Stating and supporting opinions on various topics. Understanding ambiguities, vagaries, and value inherent in the target language.

JAPN 14A ADVANCED CONVERSATION 3 Units
Prerequisite: JAPN 13B.
Three hours lecture, one hour laboratory.
Development of fluency in the oral/aural language, and cultural skills required in socio-linguistic functions, i.e., honorifics, in-group/out-group, male/female, and formal/informal expressions. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, debates, and drama. Stating and supporting opinions on various topics, including abstract concepts. Understanding and appreciating ambiguities, vagaries, and value inherent in the target language.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>JAPN 14B</td>
<td>ADVANCED CONVERSATION II</td>
<td>3</td>
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<tr>
<td>Prerequisite: JAPN 14A.</td>
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<td>Advisory: May be taken concurrently with JAPN 6.</td>
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<td>Three hours lecture, one hour laboratory.</td>
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<tr>
<td>Continuation of JAPN 14A. Development of advanced level of oral/aural fluency in the language, and cultural skills required in socio-linguistic functions. Stating and supporting opinions on complex, abstract topics. Analyzing and hypothesizing. Understanding cultural differences, persuading, negotiating, and giving speech in formal settings. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, debates on various issues, and drama.</td>
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| JAPN 25A   | ADVANCED COMPOSITION & READING                   | 4     |
| Prerequisite: JAPN 6. |  |
| Four hours lecture. |  |
| Introduction to authentic Japanese written materials intended for native Japanese readers, such as magazine articles, editorials, statistics, and literature. |  |
| Reading and analysis of texts as exponents of the culture and History. Compositions and advanced grammar. Recognizing about 1,300 kanji. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of reading and writing skills by exploring various forms of literary and other forms of creative thoughts. Understanding ambiguities, vagaries, and value inherent in the target language. |  |

| JAPN 25B   | ADVANCED COMPOSITION & READING                   | 4     |
| Prerequisite: JAPN 25A. |  |
| Four hours lecture. |  |
| Continuation of JAPN 25A. Reading and analysis of authentic Japanese written materials intended for native Japanese readers, as exponents of the culture and History. Development of further skills in reading authentic materials, including magazines, newspaper articles, editorials, literature, and abstract theories. Recognizing more than 1,800 kanji. Practice in writing expository essays. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of reading and writing skills by exploring various forms of literary and other forms of creative thoughts. Understanding and appreciating the ambiguities, vagaries, and value inherent in the target language. |  |

| JAPN 33    | INTRODUCTION TO JAPANESE CULTURE                 | 4     |
| Advisory: Concurrent enrollment in JAPN 1, 2, or 3. |  |
| Four hours lecture. |  |
| Introduction to Japanese culture, Zen and Confucian influences on social ethics, behavior and attitudes. Emphasis on practical application of discipline and expression through development of skill in brush writing, and analysis and interpretation of haiku. |  |

| JAPN 34    | HONORS INSTITUTE SEMINAR IN JAPANESE            | 1     |
| Prerequisite: Membership in the Honors Institute. |  |
| One hour lecture. |  |
| A seminar in directed readings, discussions and projects in Japanese. Specific topics to be determined by the instructor. |  |

| JAPN 36    | SPECIAL PROJECTS IN JAPANESE                     | Multiple |
| Prerequisite: JAPN 5. |  |
| Any combination of JAPN 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit. |  |
| One hour lecture for each unit of credit. |  |
| A study oriented toward spoken or written practice or both in Japanese. This may entail research and critical techniques adapted to individual writing and/or oral presentation projects under instructor supervision. Specific topics vary from quarter to quarter. This course cannot be substituted for departmental requirements. |  |

| JAPN 103   | JAPANESE BUSINESS CULTURE & ETIQUETTE           | 1     |
| One hour lecture. |  |
| Introduction to basic Japanese business etiquette and culture. Basic business greetings and interactions. Culturally appropriate behavior and body language. The role of gift giving and socializing in a business setting. The decision-making process in Japanese corporate culture. |  |

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

Foothill College 2007–2008 www.foothill.edu
KORE 6  INTERMEDIATE KOREAN  5 Units
Prerequisite: KORE 5 or equivalent.
Five hours lecture, one hour laboratory.
Introduction to reading Korean literature. Further development of grammatical structures presented in first year Korean. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in Korean. Reading and discussion of texts dealing with Korean literature, arts, History and culture.

KORE 103  KOREAN BUSINESS CULTURE & ETIQUETTE  1 Unit
One hour lecture.
Introduction to basic Korean business etiquette and culture. Basic business greetings and interactions. Culturally appropriate behavior and body language.
The role of gift giving and socializing in a business setting. The decision-making process in Korean corporate culture.

KORE 190  DIRECTED STUDY .5 Unit
L A 190X  1 Unit
L A 190Y  1.5 Units
L A 190Z  2 Units
Advisory: Pass/No Pass.
Any combination of L A 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.
One half-hour lecture for each one-half unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

KORE 192  COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR LANGUAGE ARTS  1 Unit
Advisory: Pass/No Pass.
May be taken six times for credit.
One hour lecture, three hours laboratory.
For students who desire training and technical support in experiential learning as a community volunteer in specific language arts disciplines.

LEARNING IN NEW MEDIA CLASSROOMS

Computers, Technology & Information Systems Division  (650) 949-7498
www.foothill.edu/kcl/linc/

LINC 200  WEB PAGE DESIGN FOR EDUCATORS  1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.
May be taken six times for credit.
One hour lecture, two hours terminal time.

LINC 201  DREAMWEAVER FOR TEACHERS  2 Units
Non-degree applicable credit course.
May be repeated six times for credit.
Two hours lecture, one hour terminal course.
Introduction to Dreamweaver to create simple web sites for use in the classroom.

LINC 202  CREATING WEB QUESTS FOR & WITH YOUR STUDENTS  2 Units
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet skills.
May be taken three times for credit.
Two hours lecture, two hours terminal time.
Provides a goal and focus for web searching which requires students to transform information into a new form. WebQuests are web-based, curriculum-based challenges with student resources and activities. Existing WebQuests will be explored as well as a step-by-step approach to creating one’s own.

LINC 203  FUNDAMENTALS OF INTERNET TECHNOLOGY FOR EDUCATORS  5 Units
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet skills.
May be taken three times for credit.
Four hours lecture, four hours terminal time.
Use the Internet to connect and communicate over the World Wide Web and e-mail, retrieve current useful information using searching tools, prepare a simple HTML Web pages, and locate Internet resources to find educational resources and information appropriate for use in the classroom.
LINC 204 INTRODUCTION TO THE INTERNET & EMAIL FOR THE EDUCATOR 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet skills.
May be taken six times for credit.
One hour lecture, one hour terminal time.
This is an introductory course for teachers and administrators who currently use the Internet for personal research and in their classrooms. Methods to better integrate the Internet into the curriculum will be addressed. The course emphasizes basic netiquette, and ethical and legal issues related using the Internet in the classroom. An array of online educational resources to enhance the curriculum will be given. Participants will explore online projects, lesson plans, and resources from around the world. Netscape Communicator and Microsoft Internet Explorer will be the tools used. The course includes: How to use the Internet from home or school, hands-on experience with E-Mail, File Transfer Protocol (FTP), and Listserves, Basics of the Browser, Bookmarks, Search Engines, and Basic Searching Strategies. It is intended for continuing education.

LINC 207 NETSCAPE COMPOSER FOR EDUCATORS 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet skills.
One hour lecture, one hour terminal time.
Provides the process for creating a web site using Netscape Composer, a free web authoring tool. How to include text, graphics, tables, links to other websites, and anchors will be addressed. Ideas for creating a student web-based project will be discussed.

LINC 208 ADVANCED SEARCHING & RESEARCHING THE INTERNET FOR EDUCATORS 2 Units
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet and Email skills.
May be taken six times for credit.
Two hours lecture, two hours terminal time.
This course is an advanced search strategy skills course designed for teachers and administrators who currently use the Internet for personal research and in their classrooms. Methods to better integrate the Internet into the curriculum will be addressed. This course emphasizes using advanced search techniques that incorporate critical thinking, essential questions, and inquiry-based learning to narrow searchers, explore search engines, evaluate web sites, and understand copyright and citation documentation. Participants will create an Internet treasure hunt or WebQuest to help students with experience in both effective communication and exploring. The course will also cover Internet Safety and Child Safety on the Internet including the ability to evaluate the validity of Internet resources. Through-out the course, you will be working towards developing strategies to protect your students while using the Internet.

LINC 209 SOFTWARE FOR WEB PAGE DESIGN: DREAMWEAVER 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet and Email skills.
May be taken six times for credit.
One hour lecture, two hours terminal time.
Design and creation of World Wide Web pages using Macromedia Dreamweaver. Participants will create and organize a Bookmark or Favorites list of essential Web sites.

LINC 210 CREATING GREAT EDUCATIONAL WEB SITES 2 Units
Non-degree applicable credit course.
May be taken six times for credit.
Two hours lecture, two hours terminal time.
This course explores the tools that make a web site stand out and hold the viewer’s attention. Participants will be instructed on how to add graphics, QuickTime movies, and sound to web sites. Elements of design and ideas for effective web sites will be discussed.

LINC 211 WORLD WIDE WEB PAGE DESIGN FOR EDUCATORS 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet and Email skills.
May be taken two times for credit.
One hour lecture, two hours terminal time.

LINC 214 INTEGRATING TECHNOLOGY USING ONLINE COLLABORATION TOOLS 2 Units
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet skills.
May be taken six times for credit.
Two hours lecture, two hours terminal time.
Collaboration is a fundamental basic skill of learning and work in the 21st century. This course will explore some different kinds of collaborative technologies using the Internet and Web—and how these can be integrated with curriculum and student projects to help provide students with experience in both effective communication and learning using new media, as well as providing teachers tools for planning and assessing collaborative student projects.

LINC 215 INTRODUCTION TO OPEN EDUCATION RESOURCES 1 Unit
Non-degree applicable credit course.
May be repeated six times for credit.
Two hours lecture.
Introduction to Open Educational Resources (OER) and the use of public domain learning materials for teaching. Build educators knowledge and skills necessary to find, adapt, repurpose and create accessible OER for use in their classes. Specific topics covered include OER terminology, OER best practices and case studies, copyright and fair use issues as they pertain to OER, sources and repositories of public domain learning materials in various disciplines, technical issues regarding accessibility of public domain learning materials, and use of Creative Commons licenses, tools and standards available to develop, organize and disseminate public domain learning materials, searching techniques for identifying public domain learning materials, professional collaboration strategies, criteria for assessing the suitability of public domain learning materials for use various disciplines, lesson plan development than incorporates use of the identified public domain learning materials.

LINC 216 USING MICROSOFT FRONTPAGE 1 Unit
Non-degree applicable credit course.
One hour lecture, one hour terminal time.
This course explores the tools that make a web site stand out and hold the viewer’s attention. Participants will be instructed on how to add graphics, QuickTime movies, and sound to web sites. Elements of design and ideas for effective web sites will be discussed.

LINC 217 INTRODUCTION TO THE INTERNET FOR EDUCATORS 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Basic Internet skills.
May be taken six times for credit.
One hour lecture, one hour terminal time.
This is a comprehensive course to learn to use email and the Internet. Participants will learn how to understand the vocabulary and anatomy of email and web addresses, distinguish between the different types of email accounts, and learn appropriate netiquette, and ethical and legal issues related using the Internet in the classroom. An array of online educational resources to enhance the curriculum will be given. Participants will explore online projects, lesson plans, and resources from around the world. Netscape Communicator and Microsoft Internet Explorer will be the tools used. The course includes: How to use the Internet from home or school, hands-on experience with E-Mail, File Transfer Protocol (FTP), and Listserves, Basics of the Browser, Bookmarks, Search Engines, and Basic Searching Strategies. It is intended for continuing education.
LINC 224 GLOBAL PROJECT-BASED LEARNING 2 Units
Non-degree applicable credit course.  
Advisory: Familiarity with PC or Mac. Basic Internet skills.  
May be taken six times for credit.  
Two hours lecture, two hours terminal time.  
This course is an overview of the pros and cons of several software applications that are used as tools for student projects. An analysis of the tools that deepen student learning of academic content will be discussed. Participants will try creating mini projects using various software and analyzing their own learning. Applications such as Inspiration, Photoshop MovieWorks, HyperStudio, PowerPoint, Creator, and MicroWorlds Pro will be explored.
LINC 234 OVERVIEW OF ADOBE INDESIGN FOR EDUCATORS
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac and any word processing software. May be taken six times for credit.
One hour lecture, one hour terminal time.
InDesign is an application for the creation of flyers, newsletters, yearbooks, trifold and other desktop published items. InDesign features page layout tools that fully integrate with Photoshop, Illustrator, Acrobat, and other Adobe products. Its features are intuitive, allowing the user to be creative. This course provides the basics of page layout using Adobe InDesign. Students will create a publication by placing text and graphics.

LINC 235 ADOBE LIVEMOTION
Non-degree applicable credit course.
Advisory: Familiarity with Adobe GoLive or similar Web page authoring software, Adobe Photoshop or similar photo editing software, and Macromedia Flash.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Adobe LiveMotion is an application that allows for the creation of dynamic, interactive content in a variety of formats, including Macromedia Flash™ (SWF) and QuickTime®. It provides support for ActionScript, combined with design, coding and debugging tools, and allows for the creation of animated content for the Web and other media.

LINC 236 ADOBE PREMIER FOR EDUCATORS
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac, scanning photos, using a digital still and digital video camera.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Adobe Premiere provides students with skills necessary to create digital movies. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and the Ken Burns Effect as well as other special effects in their movies.

LINC 237 INTRODUCTION TO MACROMEDIA FIREWORKS FOR EDUCATORS
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Provides hands-on experience with the basic elements and tools of Macromedia Fireworks, a digital photo editing software, to set up files, manage documents, and perform basic image processing. Includes basic concepts and methods of developing images and creating special effects and problem solving.

LINC 238 MACROMEDIA FLASH
Non-degree applicable credit course.
Advisory: Familiarity with Fireworks of similar photo editing software and with DreamWeaver or similar Web page authoring software.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Macromedia Flash is an animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video. Intended for Continuing Education.

LINC 239 MACROMEDIA DIRECTOR FOR EDUCATORS
Non-degree applicable credit course.
Advisory: Familiarity with Mac or PC; Basic word processing, multimedia and image editing software.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Macromedia Director is an 2D animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video. Add interactivity to presentations and student projects. Intended for Continuing Education.

LINC 240 MACROMEDIA FREEHAND FOR EDUCATORS
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Provides hands-on experience with the basic elements and tools of Macromedia Freehand, a software drawing tools. Includes basic concepts and methods of creating images.

LINC 241 OVERVIEW OF IMOVIE
Non-degree applicable credit course.
Advisory: Familiarity with Mac.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Using the software application, iMovie, to produce movies on the computer with video clips captured from a video format camcorder with background audio, voice-over narrations, sound effects, transitions and titles.

LINC 242 OVERVIEW OF CREATING ANIMATIONS WITH MORPHINK
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Provides hands on experience using the animation software, Morphink. Participants will develop animation skills.

LINC 243 BASIC PROGRAMMING FOR EDUCATORS & STUDENTS WITH STAGECAST CREATOR
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Using the software application, STAGECAST CREATOR, the student moves beyond the world of traditional multimedia authoring to construct computer based simulation to express his/her understanding of virtually any academic topic.

LINC 244 CREATING DIGITAL MOVIES WITH MOVIEWORKS
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac; Basic Internet skills.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Provides students with skills necessary to create digital movies using MovieWorks. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their movies.

LINC 245 HYPERSTUDIO FOR EDUCATORS
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Provides hands on experience using the HyperStudio Participants will develop a project suitable for use in the classroom.

LINC 246 INTRODUCTION TO PRESENTATION SOFTWARE FOR EDUCATORS: POWERPOINT
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac; Basic Internet skills.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Provides students with skills necessary to create projects using Microsoft PowerPoint. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their PowerPoint presentation.

LINC 247 KID PIX FOR EDUCATORS
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac; Basic Internet skills.
May be taken six times for credit.
One-hour lecture, one-half hour terminal time.
Provides hands on experience using the Kid Pix Program. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their Kid Pix Slide Show.

LINC 248 KIDWORKS DELUXE FOR EDUCATORS
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac; Basic Internet skills.
May be taken six times for credit.
One-hour lecture, one-half hour terminal time.
Provides students with skills necessary to create projects using KidWorks Deluxe. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their KidWorks Deluxe Slide Show.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
LINC 249  EASY & FOOLPROOF DESIGN PRINCIPLES FOR MULTIMEDIA PROJECTS  2 Units
Non-degree applicable credit course. May be repeated six times for credit.
Two hours lecture, one hour terminal time.
Introduction to various methods of developing multimedia projects using a variety of tools.

LINC 250  OVERVIEW OF APPELWORKS  1 Unit
Non-degree applicable credit course.
Advisory: Basic understanding how to use a Macintosh computer.
May be taken six times for credit.
One hour lecture, one hour terminal time.
AppleWorks allows you to create word processed documents, draw, paint, create spreadsheets with charts and graphs and create a basic data base. In this course you will get an overview of how to use the various components of Appleworks.

LINC 250S  OVERVIEW OF APPELWORKS  .5 Unit
Non-degree applicable credit course.
Advisory: Basic understanding how to use a Macintosh computer.
May be taken six times for credit.
One-half hour lecture, one-half hour terminal time.
AppleWorks allows you to create word processed documents, draw, paint, create spreadsheets with charts and graphs and create a basic data base. In this course you will get an overview of how to use the various components of Appleworks.

LINC 251  OVERVIEW OF MULTIMEDIA FOR EDUCATORS  1 Unit
Non-degree applicable credit course.
One hour lecture, one hour terminal time.
Introduction to various multimedia software and tools and the multimedia production process. Hands-on experience various software to integrate text, graphics, animation, sound, and digital movies into multimedia projects and presentations.

LINC 252  MULTIMEDIA IN THE CLASSROOM  1 Unit
Non-degree applicable credit course.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Introduction to how to integrate various multimedia software and tools along with the production process, into the classroom. Hands-on experience various software to integrate text, graphics, animation, sound, and movies.

LINC 255  TECHNOLOGY IN THE K-12 CLASSROOM FOR EDUCATORS  1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac.
May be taken six times for credit.
One hour lecture, two hours terminal time.
Using a variety of software applications, the student moves beyond the world of traditional multimedia authoring to construct computer based simulation to express his/her understanding of virtually any academic topic.

LINC 256  ITTOOLS MAC FOR OS X  1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with Macintosh and OS X.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Provides hands-on experience with a Macintosh computer and the OS X ITTools programs such as iPhoto, iTunes, iMovie, iDisk, and their interactivity.

LINC 257  USING DIGITAL IMAGES  1 Unit
Non-degree applicable credit course.
Advisory: Not open to students with credit for COIN 211A.
May be repeated three times for credit.
One hour lecture.
Use your digital images for fun and profit! Learn how to create hard or soft cover books, calendars, note cards and more to make great gifts or remembrances. Create collateral materials for use in projects or presentations. Easy quick and fun!

LINC 260  ASSESSMENT STRATEGIES FOR TECHNOLOGY INTEGRATION FOR EDUCATORS  1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Familiarity with technology integration in the classroom and the Internet.
May be taken six times for credit.
One hour lecture, one hour terminal time.
Provides techniques for assessing what technology can do to improve students' higher order thinking skills. Students will learn how to use assessment to drive learning. They will learn assessment strategies for students' multimedia projects.

LINC 261  INTEGRATING TECHNOLOGY INTO THE LANGUAGE ARTS CURRICULUM  1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.
May be taken six times for credit.
One hour lecture, one hour terminal time.
How to integrate a student-centered technology project based on the California Language Arts Content Standards, State approved language arts text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.

LINC 262  INTEGRATING TECHNOLOGY INTO THE SCIENCE CURRICULUM  1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.
May be taken six times for credit.
One hour lecture, one hour terminal time.
How to integrate a student-centered technology project based on the California Language Arts Content Standards, State approved language arts text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.

LINC 263  INTEGRATING TECHNOLOGY INTO THE MATHEMATICS CURRICULUM  1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.
May be taken six times for credit.
One hour lecture, one hour terminal time.
How to integrate a student-centered technology project based on the California Mathematics Content Standards, State approved Mathematics text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.

LINC 264  INTEGRATING TECHNOLOGY INTO THE SOCIAL STUDIES CURRICULUM  1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.
May be taken six times for credit.
One hour lecture, one hour terminal time.
How to integrate a student-centered technology project based on the California Social Studies Content Standards, State approved Social Studies text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.
LINC 265 INTRODUCTION TO BIOINFORMATICS 1 Unit
Non-degree applicable credit course. May be repeated six times for credit.
One hour lecture, one hour terminal time. Provides students with an overview of bioinformatics and NCBI. Hands-on tour of key bioinformatics Web sites, focusing on NCBI (National Center for Biotecnology Information) and the use of bioinformatics databases, tools, and methods. Use of BLAST, multiple sequence alignment, genome databases, simple protein modeling tools, and online scientific journals. The course is built around problem centered learning, with exercises built on current real-world medical and biological problems.

LINC 266 LEARNING A FOREIGN LANGUAGE USING A TECHNOLOGY COMPONENT 3 Units
Non-degree applicable credit course. May be repeated six times for credit.
Three hours lecture, one hour terminal time. Introduction to various methods of foreign language acquisition. Hands-on experience using the target foreign language search engines and developing multimedia projects and presentations.

LINC 267 TEACHING SCIENCE USING BAY AREA SCIENCE MUSEUMS 2 Units
Non-degree applicable credit course. May be taken six times for credit.
Two hours lecture, two hours terminal time. This course addresses the growing need for K-8 teachers to change the way they teach science and improve student science literacy/achievement. This course helps teachers to develop their own science content art practice knowledge while learning to use online resources for curriculum alignment with the CA science standards and many different Bay Area science, technology, and children's museums, zoos, aquariums, nature centers, observatories/planetariums, and other informal science institutions.

LINC 268 WORKSHOP FOR NEW PHYSICS TEACHERS 3 Units
Non-degree applicable credit course. May be taken six times for credit.
Three hours lecture. Introduction of physics instruction to out-of-field teachers or people new to teaching. Includes standards, good practices and effective use of educational materials.

LINC 269 USING EXCEL TO SUPPORT SCHOOL LEADERSHIP & MANAGEMENT 1 Unit
Non-degree applicable credit course. May be taken six times for credit.
One hour lecture, one hour lecture-laboratory. Microsoft Excel is a powerful spreadsheet application that can support school administrators in a myriad of tasks that include analyzing student performance data, tracking expenditures, budget development, meeting planning, and parent communication, to name a few. Yet most Excel users barely scratch the surface of its potential. In this course, students will become familiar with many of the features of Excel used in the context of school leadership and management.

LINC 270 MICROSOFT WORD FOR EDUCATORS 1 Unit
Advisory: Familiarity with PC or Mac recommended. May be taken six times for credit.
One hour lecture, one hour terminal time. Provides hands-on experience including formatting, editing, saving, and printing letters, memos, and other short documents, inserting text boxes and graphics, composing tables, headers and footers, and editing and merging documents.

LINC 271 MICROSOFT EXCEL FOR EDUCATORS 1 Unit
Non-degree applicable credit course. Advising: Familiarity with PC or Mac. May be taken six times for credit.
One hour lecture, one hour terminal time. Provides ways to use the Excel software application, including the use of formulas for student and teacher projects. Creating and modifying Excel spreadsheets, databases, charts and graphs will be included.

LINC 272 OVERVIEW OF MICROSOFT WORD OFFICE FOR EDUCATORS 1 Unit
Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken six times for credit.
One hour lecture, one hour terminal time. Provides students with an overview of Microsoft Office. Hands-on experience of Word, Power Point and Excel will give students a basic knowledge of the classroom uses of the Office Suite.

LINC 273 MICROSOFT ACCESS BASICS FOR EDUCATORS 1 Unit
Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. May be taken two times for credit.
One hour lecture, two hours terminal time. Introduction to Access, a relational database tool; hands-on experience. Intended for Continuing Education.

LINC 274 TEACHING MATH & SCIENCE WITH TECHNOLOGY 3 Units
Non-degree applicable credit course. May be taken six times for credit.
Three hour lecture, three hours lecture-laboratory. This course is intended for math and science teachers who wish to use technology more effectively to enhance teaching and learning. A major part of this class will be examining the processes of mathematical and scientific investigation and problem solving such as observing, predicting, inferring, hypothesizing, evaluating and model building. This will be a hands-on class where participants will create presentations, concept maps, WebQuests and lessons using technology.

LINC 275 OVERVIEW OF FILEMAKER PRO FOR EDUCATORS 1 Unit
Non-degree applicable credit course.
Advisories: Basic computer skills, how to use the keyboard and a mouse, and a basic understanding of how to use menus is advisable. May be taken six times for credit.
One hour lecture. Introduction to Filemaker Pro, a relational database tool; hands-on experience. Intended for Continuing Education.

LINC 276 WORD, POWER POINT & EXCEL FOR EDUCATORS 1 Unit
Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken six times for credit.
One hour lecture, one hour terminal time. Provides a basic working knowledge of Microsoft Office Word, Power Point and Excel will give students a basic knowledge of the classroom uses of the Office Suite.

LINC 277 INTERMEDIATE/ADVANCED FIREWORKS 1 Unit
Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Intermediate firework skills. May be taken six times for credit.
One hour lecture, one hour terminal time. Provides hands-on experience with the more of the advanced elements and tools of Macromedia Fireworks, a digital photo editing software, to set up files, manage documents, and perform basic image processing. Includes intermediate and advanced concepts and methods of developing images and creating special effects and problem solving.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>LINC 287</td>
<td>INTERMEDIATE/ADVANCED MACROMEDIA FLASH</td>
<td>1</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>Advisory: Familiarity with Flash, Fireworks and DreamWeaver.</td>
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<td>May be taken six times for credit.</td>
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<td>One hour lecture, one hour terminal time.</td>
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<td>Two hours lecture, one hour terminal time.</td>
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<td></td>
<td>Provides hands-on experience with Macromedia Flash.</td>
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<td>This course introduces Flash to the students in the context of them using it in a classroom setting. There will be a collaborative project wherein each student will display their results to other members of the class.</td>
</tr>
<tr>
<td>LINC 288</td>
<td>LEARNING A FOREIGN LANGUAGE USING A TECHNOLOGY COMPONENT</td>
<td>2 Units</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>May be repeated six times for credit.</td>
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<td>Three hours lecture, three hours terminal time.</td>
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<td></td>
<td>Provides hands-on experience with a Macintosh computer.</td>
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<td>Educational research has shown that students demonstrate greater recall and understanding of materials presented in the classroom when pictorial representations of ideas and concepts accompany verbal information. In the class you will learn to create more effective PowerPoint presentations and overhead slides, and gain first-hand experience developing concept maps and visual organizers. In addition, you will learn about research on cognitive and multimedia learning and explore how to apply these ideas in classroom instruction.</td>
</tr>
<tr>
<td>LINC 289</td>
<td>CREATING MORE EFFECTIVE VISUAL AIDS IN THE CLASSROOM</td>
<td>3 Units</td>
<td>Non-degree applicable credit course.</td>
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<td>May be repeated six times for credit.</td>
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<td>Provides hands-on experience with handheld devices (PDAs) such as Palms, Handsprings, etc. Students will learn how to operate PDAs including date books, calendars, address books, graffiti, beaming, downloading and using available software, and other tools and functions.</td>
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<tr>
<td>LINC 290</td>
<td>WEBINARS IN EDUCATION</td>
<td>1 Unit</td>
<td>Non-degree applicable credit course.</td>
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<td>May be repeated six times for credit.</td>
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<td>May be repeated six times for credit.</td>
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<td></td>
<td>Provides hands-on experience with Webinars.</td>
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<td>Webinars allow for synchronous and asynchronous instruction. This course will use CCC Confer and other online tools including digital video, PowerPoint and Internet resources to demonstrate relevant, short, and to the point practical classroom and learning applications of Webinars.</td>
</tr>
<tr>
<td>LINC 292A</td>
<td>GET TO KNOW YOUR HANDHELD FOR EDUCATORS</td>
<td>.5 Unit</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>Advisory: Familiarity with basic computer skills.</td>
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<td>May be taken six times for credit.</td>
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<td></td>
<td>One-half hour lecture, one-half hour terminal time.</td>
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<td>May be taken six times for credit.</td>
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<td></td>
<td>Provides hands-on experience with handheld devices (PDAs) such as Palms, Handsprings, etc. Students will learn how to operate PDAs including date books, calendars, address books, graffiti, beaming, downloading and using available software, and other tools and functions.</td>
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<tr>
<td>LINC 292B</td>
<td>EXPLORING EDUCATIONAL APPLICATIONS FOR HANDHELD DEVICES FOR EDUCATORS</td>
<td>.5 Unit</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>Advisory: Familiarity with basic computer skills.</td>
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<td>May be taken six times for credit.</td>
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<td></td>
<td>One-half hour lecture, one-half hour terminal time.</td>
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<td>May be taken six times for credit.</td>
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<td></td>
<td>Provides hands-on experience with handheld devices (PDAs) such as Palms, Handsprings, etc. Students will learn how to operate PDAs including date books, calendars, address books, graffiti, beaming, downloading and using available software, and other tools and functions.</td>
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<tr>
<td>LINC 293</td>
<td>BASIC INTRODUCTION TO THE COMPUTER FOR EDUCATORS</td>
<td>1 Unit</td>
<td>Non-degree applicable credit course.</td>
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<td>May be taken three times for credit.</td>
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<td>May be taken three times for credit.</td>
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<td>One hour lecture, one hour terminal time.</td>
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<td>One hour lecture, one hour terminal time.</td>
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<td>Provides hands-on introduction to the computer: Hardware Components; Basic Interface, File Organization; Operating System; Introduction to Word Processing, Spreadsheets, &amp; Graphics.</td>
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<tr>
<td>LINC 294</td>
<td>INTRODUCTION TO THE COMPUTER FOR EDUCATORS</td>
<td>4 Units</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>Advisory: Familiarity with basic computer skills.</td>
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<td>May be taken six times for credit.</td>
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<td></td>
<td>Provides hands-on experience with a Macintosh computer.</td>
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<td>Provides hands-on experience with a Macintosh computer. Hardware components and capabilities will be explored, along with basic troubleshooting skills.</td>
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<tr>
<td>LINC 295</td>
<td>INTRODUCTION TO THE MACINTOSH FOR EDUCATORS</td>
<td>1 Unit</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>Advisory: Familiarity with Macintosh.</td>
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<td>May be taken six times for credit.</td>
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<tr>
<td></td>
<td>Provides hands-on experience with a Macintosh computer.</td>
<td></td>
<td>Provides hands-on experience with a Macintosh computer. Hardware components and capabilities will be explored, along with basic troubleshooting skills.</td>
</tr>
<tr>
<td>LINC 296</td>
<td>INTRODUCTION TO THE PC FOR EDUCATORS</td>
<td>1 Unit</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>Advisory: Familiarity with PC.</td>
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<td>May be taken six times for credit.</td>
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<td></td>
<td>Provides hands-on experience with a PC.</td>
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<td>Provides hands-on experience with a PC. Hardware components and capabilities will be explored, along with basic troubleshooting skills.</td>
</tr>
<tr>
<td>LINC 297</td>
<td>MAC OS X FOR EDUCATORS</td>
<td>.5 Unit</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>Advisory: Familiarity with Macintosh.</td>
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<td>May be taken six times for credit.</td>
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<tr>
<td></td>
<td>Provides hands-on experience with a Macintosh computer.</td>
<td></td>
<td>Provides hands-on experience with a Macintosh computer. Hardware components and capabilities of OS X will be explored.</td>
</tr>
<tr>
<td>LINC 298</td>
<td>INTRODUCTION TO PROGRAMMING FOR EDUCATORS</td>
<td>1 Unit</td>
<td>Non-degree applicable credit course.</td>
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<td></td>
<td>Advisory: Familiarity with basic computer skills.</td>
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<td>May be taken six times for credit.</td>
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<tr>
<td></td>
<td>Provides hands-on experience with Alice.</td>
<td></td>
<td>Provides hands-on experience with Alice. Programming with Alice will teach you to program a computer, but uses a completely different and more enjoyable approach which allows students to drag-and-drop words in a direct manipulation interface rather than having to correctly type commands according to obscure rules of syntax. In addition, Alice defines object-based programming by providing animated, on-screen 3D virtual objects.</td>
</tr>
</tbody>
</table>

**LIBRARY SCIENCE**

Library Learning Resources Division  
(650) 949-7608  
www.foothill.edu/ol/

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIBR 1</td>
<td>PRINCIPLES OF LIBRARY RESEARCH</td>
<td>3 Units</td>
<td>Advisory: Not open to students with credit in LIBR 50.</td>
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<tr>
<td></td>
<td>Nine hours laboratory.</td>
<td></td>
<td>An in-depth analysis of the resources of an academic library's print and non-print collections, including computer searching. This is an independent study course.</td>
</tr>
<tr>
<td>LIBR 36</td>
<td>SPECIAL PROJECTS IN LIBRARY SCIENCE</td>
<td>1 Unit</td>
<td>Provides hands-on experience with Alice. Programming with Alice will teach you to program a computer, but uses a completely different and more enjoyable approach which allows students to drag-and-drop words in a direct manipulation interface rather than having to correctly type commands according to obscure rules of syntax. In addition, Alice defines object-based programming by providing animated, on-screen 3D virtual objects.</td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

Foothill College 2007–2008  www.foothill.edu
LING 23 MODERN ENGLISH: FUNCTION & GRAMMAR 4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in ENGL 25.
Four hours lecture.
Introduction to basic linguistic concepts in describing the functions and grammar of present-day English. Focus on grammatical features of standard American English, Black English, and other English varieties as they function in the diverse types of communication between Americans, as well as in global interaction. Analysis of modern English relevant for those interested in refining their English, students of ESL and foreign languages, and prospective writers and language teachers.

LING 25 INTRODUCTION TO DESCRIPTIVE & HISTORICAL LINGUISTICS 4 Units
Prerequisite: Eligibility for ENGL 1A.
Advisory: Not open to students with credit in ENGL 25, ENGL 25H, or LING 25H.
Four hours lecture.
Introduction to linguistic concepts in the study of structure, pattern, meaning, and change in language, with emphasis on British and American English. Introduction to historical linguistic theory and methods as applied to investigation of origin and development of spoken and written language. Offered Fall quarters.

MATH 1A CALCULUS 5 Units
Prerequisites: Satisfactory score on the mathematics placement test or MATH 49.
Five hours lecture, one hour laboratory.
Introduction to differential calculus, including limits, derivatives and their applications to curve-sketching, families of functions, and optimization. [CAN MATH 17, CAN MATH 18 = MATH 1A+1B, CAN MATH SEQ B = MATH 1A+1B+1C, CAN MATH SEQ C = MATH 1A+1B+1C+1D]

MATH 1B CALCULUS 5 Units
Prerequisite: MATH 1A.
Five hours lecture, one hour laboratory.
Introduction to integral calculus including definite and indefinite integrals, the first and second Fundamental Theorems and their applications to geometry, physics, and the solution of elementary differential equations. [CAN MATH 18 = MATH 1A+1B, CAN MATH 19, CAN MATH SEQ B = MATH 1A+1B+1C, CAN MATH SEQ C = MATH 1A+1B+1C+1D, CAN MATH 20 = MATH 1B+1C]

MATH 1C CALCULUS 5 Units
Prerequisite: MATH 1B.
Five hours lecture, one hour laboratory.
Introduction to functions of more than one variable, including vectors, partial differentiation, the gradient, contour diagrams and optimization. Additional topics include infinite series, convergence, Taylor and Fourier series. [CAN MATH 20 = MATH 1B+1C, CAN MATH 21, CAN MATH SEQ B = MATH 1A+1B+1C, CAN MATH SEQ C = MATH 1A+1B+1C+1D, CAN MATH 22 = MATH 1C+1D]
MATH 2A DIFFERENTIAL EQUATIONS 5 Units
Prerequisite: MATH 1C.
Advisory: Eligibility for ENGL 1A or ESL 26.
Five hours lecture, one hour laboratory.
Differential equations and selected topics of mathematical analysis. [CAN MATH 24]

MATH 2B LINEAR ALGEBRA 5 Units
Prerequisite: MATH 1C.
Five hours lecture, one hour laboratory.
A first course in Linear Algebra, including systems of linear equations, matrices, linear transformations, determinants, abstract vector spaces, eigenvalues and eigenvectors, inner product spaces and orthogonality, and selected applications of these topics. [CAN MATH 26]

MATH 10 ELEMENTARY STATISTICS 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 104 or 105.
Five hours lecture, one hour laboratory.
An introduction to modern methods of descriptive statistics, including collection and presentation of data; measures of central tendency and dispersion; probability; sampling distributions; hypothesis testing and statistical inference; linear regression and correlation; use of microcomputers for statistical calculations. Illustrations taken from the fields of business, economics, medicine, engineering, education, psychology, and from culturally diverse situations. [CAN STAT 2]

MATH 11 FINITE MATHEMATICS 5 Units
Prerequisite: MATH 11.
Five hours lecture, one hour laboratory.
Elementary ideas of differential and integral calculus. Differentiation of multivariate functions with their applications. Applications to business and economics. [CAN MATH 34]

MATH 22 DISCRETE MATHEMATICS 5 Units
Prerequisite: MATH 49.
Advisory: Not open to students with credit in CIS 18.
Five hours lecture, one hour laboratory.
Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees. [CAN CSCI 26 = CIS 18 OR MATH 22]

MATH 34 HONORS INSTITUTE SEMINAR 1 Unit
MATH 34X IN MATHEMATICS 2 Units
MATH 34Y 3 Units
Prerequisite: Membership in the Honors Institute.
Two hours lecture for each unit of credit.
A seminar in directed readings, discussions and projects in mathematics. Specific topics to be determined by the instructor.

MATH 34H HONORS INSTITUTE SEMINAR 1 Unit
MATH 34HX IN MATHEMATICS 2 Units
MATH 34HY 3 Units
Prerequisite: Membership in the Honors Institute.
One hour lecture for each unit of credit.
A seminar in directed readings, discussions and projects in mathematics. Specific topics to be determined by the instructor.

MATH 36 SPECIAL PROJECTS IN MATHEMATICS 1 Unit
MATH 36X 2 Units
MATH 36Y 3 Units
Prerequisite: High interest in the pursuit of mathematical knowledge. Previous experience in mathematics recommended.
Any combination of MATH 36, 36X & 36Y may be taken for a maximum of six units.
Three hours laboratory for each unit of credit.
Advanced readings and projects in mathematics. Specific projects determined on consultation with instructor. Written reports required. Enrollment generally limited to those students enrolled in the calculus sequence.

MATH 44 QUANTITATIVE REASONING 5 Units
Prerequisite: Satisfactory score on the mathematics placement exam or MATH 105.
Five hours lecture, one hour laboratory.
A survey of mathematical models and other tools to introduce the nonspecialist to the methods of quantitative reasoning. Problem solving by Polya's method with analytic, numeric, graphical, and verbal investigation. Selecting, constructing, and using mathematical models. Interpreting quantitative results in qualitative context. Emphasis on deductive reasoning and formal logic; algebraic, exponential, logarithmic, and trigonometric models; probability and the normal distribution; data analysis; and selected topics from discrete math, finite math, and statistics. [CAN MATH 2]

MATH 46 NUMBER SYSTEMS 5 Units
Prerequisites: Satisfactory score on the mathematics placement test or MATH 51.
Not repeatable
Five hours lecture, one hour laboratory.
Investigation and integration of mathematical topics, emphasizing critical-thinking skills and problem-solving strategies. Topics include number systems, set theory, number theory, algebraic reasoning, modeling, whole numbers, integers, rational and irrational numbers, functions, numeration, application to real-world problems, use of technology. Course provides collegiate-level quantitative reasoning appropriate for liberal arts and teacher preparation majors.

MATH 49 PRECALCULUS 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 51.
Not repeatable
Five hours lecture, one hour laboratory.
An intensive study of linear, quadratic, polynomial, rational, exponential, and other functions and their related applications. Additional topics include functional notation, transformation of functions, families of functions, and inverse functions. [CAN MATH 10]

MATH 51 TRIGONOMETRY 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 105.
Advisory: MATH 102.
Five hours lecture, one hour laboratory.
The theory of trigonometric functions and the applications of trigonometry. Topics include: radian measure and circular functions, graphs, identities, inverse trigonometric functions, trigonometric equations, vectors, and complex numbers. [CAN MATH 8]

MATH 100 OPEN COMPUTER LABORATORY .5 Unit
MATH 100X 1 Unit
MATH 100Y 2 Units
Any combination of MATH 100, 100X & 100Y may be taken for a maximum of six hours for credit.
One and one-half hours laboratory for each half unit of credit.
Individual study and/or guidance provided for students who desire or require additional assistance in any of the mathematics courses.

MATH 101 ELEMENTARY ALGEBRA 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 200 or a certificate of completion in MATH 230.
Advisory: A passing grade in MATH 230 alone does not meet the prerequisite.
Five hours lecture, one hour laboratory.
Fundamental algebraic operations, real numbers, first degree equations, first degree inequalities, graphs, linear systems, operations on polynomials and factoring.

MATH 102 ELEMENTARY PLANE GEOMETRY 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.
Five hours lecture, one hour laboratory.
Development of geometric theory and concepts, deduction and proof, application to the solutions of practical problems.
MATH 103 ESSENTIALS OF INTERMEDIATE ALGEBRA I 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.
Advisory: This course is an option for students who intend to obtain an AA degree without transferring to a four-year institution. Students may not receive credit for both MATH 105 and 103/104.
Five hours lecture, one hour laboratory.
Linear, quadratic, polynomial, exponential and logarithmic functions with an emphasis on graphing and applications. These applications will cover diverse fields, including but not limited to biology, business, physical sciences, social sciences and general data analysis.

MATH 104 ESSENTIALS OF INTERMEDIATE ALGEBRA II 5 Units
Prerequisite: MATH 103.
Advisory: Students may not receive credit for both MATH 105 and 103/104.
Five hours lecture, one hour laboratory.
Linear systems of three equations in three unknowns, rational expressions and equations, radical expressions and equations, polynomials and complex numbers. This course is intended for students who have taken MATH 103 and who wish to fulfill the prerequisites for MATH 10, 11, or 51.

MATH 105 INTERMEDIATE ALGEBRA 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.
Advisory: This course is for students who intend to transfer to a four-year institution. Students may not receive credit for both MATH 105 and 103/104.
Five hours lecture, one hour laboratory.
Linear, quadratic, polynomial, rational, radical, exponential and logarithmic functions and expressions with an emphasis on graphing and applications. This course is for students who intend to transfer to a four-year institution.

MATH 127 INTRODUCTION TO MATHEMATICA 1 Unit
Advisory: MATH 1A (may be taken concurrently).
One hour lecture, one hour laboratory.
An introduction to the use of the Mathematica computer program as it applies to mathematics courses offered at Foothill College, including numerical calculations, algebraic manipulations, graphing, solving equations and systems of equations, differentiation and integration.

MATH 200 PREALGEBRA 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 250 or 250L. Students may not receive credit for both MATH 200 and 200 A, B, C, D, E.
Five hours lecture, one hour laboratory.
Review of addition, subtraction, multiplication and division of whole numbers, fractions and decimals. Addition, subtraction, multiplication and division of signed numbers. Introduction to algebraic concepts including solving first degree equations and evaluating and simplifying expressions. Development and applications of ratios, proportions, percents, geometric concepts and basic algebra.

MATH 230 PREPARING FOR ALGEBRA 5 Units
Advisories: Pass/No Pass. Not open to students with credit in MATH 200.
Corequisite: Concurrent enrollment in MATH 231.
Five hours lecture.
Addition, subtraction, multiplication and division of whole numbers, fractions, decimals and signed numbers. Introduction to algebraic concepts including solving first-degree equations and evaluating and simplifying expressions. Development and applications of ratios, proportions, percents, geometric concepts and basic algebra.

MATH 230J PREPARING FOR ALGEBRA 3 Units
Prerequisites: Completion of 7 or more modules from MATH 230.
Three hours lecture.
Development and applications of percents and geometric concepts. Review of addition, subtraction, multiplication and division of whole numbers, fractions, decimals and signed numbers. Review of algebraic concepts including solving first-degree equations and evaluating and simplifying expressions, and applications of ratios and proportions.

MATH 231 MATH-SPECIFIC STUDY SKILLS 2 Units
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in MATH 230 or MATH 235.
May be repeated three times for credit.
Five hours lecture.
Individualized study and guidance to support students enrolled in MATH 230. Development of math specific study skills and problem solving techniques.

MATH 235 ALTERNATE CREDIT ARITHMETIC & MATHEMATICAL DEVELOPMENT 5 Units
Corequisite: Enrollment in MATH 230.
May be taken 4 times for credit
Five hours lecture.
Course is designed to allow students enrolled in Math 230 to receive credit for mastery of some but not all of the outcomes of MATH 230. Students are required to attend the Math 230 course, turn in all work, and participate in the other tasks of the class.

MATH 250 ARITHMETIC 5 Units
Advisory: Not open to students with credit in MATH 250L.
Five hours lecture, one hour laboratory.
Study of basic concepts of arithmetic. Topics include addition, subtraction, multiplication, division, order of operations on whole numbers, fractions, and decimals. This course is intended as a preparation for MATH 200.

MATH 250L BASIC COLLEGE MATHEMATICS 6 Units
Advisory: Not open to students with credit in MATH 250.
Five hours lecture, three hours laboratory.
Basic concepts of arithmetic and study skills. Topics include techniques and strategies for learning mathematics, addition, subtraction, multiplication, division, order of operations on whole numbers, fractions, and decimals, and introduction to ratios and rates. This course is intended as a preparation for MATH 200.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 1</td>
<td>INTRODUCTION TO MUSIC</td>
<td>4</td>
<td>A study of Western music and its place in civilization. Selected listening and readings from the masterpieces of music of Europe and the Western Hemisphere with an emphasis on methods of comprehension, listening techniques, the elements of music, primary musical forms, and a wide range of concert repertoire. A variety of media consisting of slides, videos, recordings, and lecture will be used. Live performance used when possible.</td>
</tr>
<tr>
<td>MUS 2A</td>
<td>GREAT COMPOSERS &amp; MUSIC MASTERPIECES OF WESTERN CIVILIZATION</td>
<td>4</td>
<td>Four hours lecture, two hours laboratory. Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the Ancient World and the Medieval, Renaissance, and Baroque eras. Composers include Josquin, Lassus, Palestrina, Monteverdi, Purcell, Vivaldi, Handel and Bach.</td>
</tr>
<tr>
<td>MUS 2B</td>
<td>GREAT COMPOSERS &amp; MUSIC MASTERPIECES OF WESTERN CIVILIZATION</td>
<td>4</td>
<td>Four hours lecture, two hours laboratory. Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the Classical period up through early Romanticism. Composers include Gluck, Haydn, Mozart, Beethoven, Schubert and Weber.</td>
</tr>
<tr>
<td>MUS 2C</td>
<td>GREAT COMPOSERS &amp; MUSIC MASTERPIECES OF WESTERN CIVILIZATION</td>
<td>4</td>
<td>Four hours lecture, two hours laboratory. Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the mid-19th Century Romanticism through the present. Composers include Schumann, Chopin, Mendelssohn, Brahms, Berlioz, Liszt, Tchaikovsky, Mussorgsky, Strauss, Verdi, Wagner, Bizet, Debussy, Ravel, Ives, Cowell, Bartok, Berg, Webern, Stravinsky, Copland, Varese, Babbitt, Cage, Crumb, Ligeti, Penderecki, Reich, Glass and Adams.</td>
</tr>
<tr>
<td>MUS 2D</td>
<td>WORLD MUSIC</td>
<td>4</td>
<td>Four hours lecture, one hour laboratory. World Music online will develop a listening perception and appreciation through a survey of the music and artistic media of East Asia (Japan and China), Asia (Indochina and Indonesia), Africa, Middle East, North and South India, Central and South (Latin) America, Central and South-Eastern Europe, Polynesian, Caribbean, and other areas of the world. In addition to the non-Western European music, the online course will explore the culture and socioeconomic background of each non-Western group and its impact and importance in the world's music of yesterday and today. Another primary objective of World Music online is to experience and study the musical practices and perspectives from several music cultures with an emphasis on understanding and appreciation from non-etnocentric viewpoints.</td>
</tr>
<tr>
<td>MUS 3A</td>
<td>BEGINNING MUSIC THEORY, LITERATURE &amp; COMPOSITION</td>
<td>5</td>
<td>Advisory: MUS 12A strongly recommended. Four hours lecture, three hours laboratory. Introduction to the fundamentals of music and their application to composition and music literature. Notation, scales, intervals, triads, and their use in basic composition.</td>
</tr>
<tr>
<td>MUS 3B</td>
<td>INTERMEDIATE MUSIC THEORY, LITERATURE &amp; COMPOSITION</td>
<td>5</td>
<td>Advisory: MUS 3A proficiency or equivalent. Four hours lecture, four hours laboratory. Continuation of common practice procedures in music and their application to composition and music literature. Seventh chords, cadential chordal structures, secondary dominants and leading tone chords, modulation, binary and ternary form, sonata-allegro form, and variation technique.</td>
</tr>
<tr>
<td>MUS 3C</td>
<td>ADVANCED MUSIC THEORY, LITERATURE &amp; COMPOSITION</td>
<td>5</td>
<td>Advisory: MUS 3B proficiency or equivalent. Four hours lecture, four hours laboratory. Continuation of late chromatic harmony and 20th Century compositional practice and theory. Application to composition and music literature. Impressionism, atonality, set theory, twelve-tone technique, graphic notation, and minimalism.</td>
</tr>
<tr>
<td>MUS 7</td>
<td>CONTEMPORARY MUSICAL STYLES: ROCK, POP &amp; JAZZ</td>
<td>4</td>
<td>Four hours lecture, two hours laboratory. An introduction to contemporary jazz, popular, and rock music, including prominent performers, composers, compositions, and styles associated with the evolution and stature of current musical idioms.</td>
</tr>
<tr>
<td>MUS 7E</td>
<td>HISTORY OF THE BLUES</td>
<td>4</td>
<td>Four hours lecture, one hour laboratory. Examination of the basic song form of African American origin that is marked by detailed &quot;blue&quot; notes, takes the form of a 12 bar chorus, and is made up of a three line stanza with the second line repeating the first. The course will cover the development of the blues throughout the 20th century. This is a listening based course examining geographical regions, musical and social influences and styles within the blues form. Emphasis will be on the creation of the 12 bar blues, its evolution into jazz, rock and roll, and its impact on social issues.</td>
</tr>
<tr>
<td>MUS 8</td>
<td>MUSIC OF MULTICULTURAL AMERICA</td>
<td>4</td>
<td>Four hours lecture, two hours laboratory. A comparative and integrative study of the multicultural musical styles of the United States. Includes the musics of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, from their historical roots to the present. Includes a wide variety of musical styles such as Folk, Spirituals, Gospel, Soul, Blues, Jazz, Rap, Cajun, Zydeco, Salsa and Tejano. Analysis of musical traditions from a technical and a cultural perspective; and sequential development of listening and descriptive skills through different media such as films, recordings and computer-assisted instruction.</td>
</tr>
<tr>
<td>MUS 8H</td>
<td>MUSIC OF MULTICULTURAL AMERICA (HONORS)</td>
<td>4</td>
<td>Four hours lecture, two hours laboratory. A comparative and integrative study of the multicultural musical styles of the United States. Includes the musics of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, from their historical roots to the present. Includes a wide variety of musical styles such as Folk, Spirituals, Gospel, Soul, Blues, Jazz, Rap, Cajun, Zydeco, Salsa and Tejano. Analysis of musical traditions from a technical and a cultural perspective; and sequential development of listening and descriptive skills through a variety of media including films, recordings, and computer-assisted instruction. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.</td>
</tr>
</tbody>
</table>
MUS 10  MUSIC FUNDAMENTALS  4 Units
Four hours lecture, one hour laboratory.
A study of the basic elements of music (pitch, rhythm, harmony, style and form).
A variety of classroom and laboratory activities will be used to develop a basic
understanding of these areas and develop pitch and rhythm skills. Classroom
pianos, records, tapes, compact discs and videotapes will be used. Activities will
include the singing of simple songs and music lines utilizing solfeggio, numbers
and note name techniques.

MUS 10C  MUSIC FUNDAMENTALS THROUGH THE GUITAR  4 Units
Prerequisite: Elementary guitar skills.
Advisory: MUS 14.
Four lecture hours and two hours laboratory.
Introduction to music theory using the guitar as an instrument instead of the
piano. Introduction to notation, notes on the guitar, intervals, major and minor
scales, chords, and basic principles of chord voicing as applied to the guitar. Not
designed as a performance class but intended for music students whose primary
instrument is the guitar.

MUS 12A  BEGINNING CLASS PIANO  2 Units
Advisory: Concurrent enrollment in MUS 10 and 12AL.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
Group instruction in piano for those with no previous training. Emphasis is on
finger technique, note reading, elementary chording, and performance of simple
piano literature. For music majors as well as the general student.

MUS 12AL  CLASS PIANO LABORATORY I  1 Unit
Advisory: Pass/No Pass.
Three hours laboratory.
Supervised practice of piano repertoire and technical material assigned in MUS 12A.

MUS 12B  INTERMEDIATE CLASS PIANO  2 Units
Advisory: MUS 12A or equivalent skills; concurrent enrollment in MUS 12BL.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
Continuation of MUS 12A with increased emphasis on good tone production,
independence of hands, development of eye-hand coordination, simple harmonization
and transposition, and building repertoire.

MUS 12BL  CLASS PIANO LABORATORY II  1 Unit
Advisory: Pass/No Pass.
Three hours laboratory.
Supervised practice of piano repertoire and technical material assigned in MUS 12B.

MUS 12C  ADVANCED CLASS PIANO  2 Units
Advisory: MUS 12B or equivalent skills and concurrent enrollment in MUS 12CL.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
Continuation of MUS 12B with greater emphasis on building a repertoire, varied
styles of performance, and ensemble playing.

MUS 12CL  CLASS PIANO LABORATORY III  1 Unit
Advisory: Pass/No Pass.
Three hours laboratory.
Supervised practice of piano repertoire and technical material assigned in MUS 12C.

MUS 12D  PIANO REPERTOIRE  2 Units
Prerequisite: MUS 12C or equivalent.
Advisory: Concurrent enrollment in MUS 12DL.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
The study and performance of selected piano literature from the 18th to 20th centuries.
Emphasis will be on interpretation, practice techniques, and expansion of repertoire.

MUS 12DL  PIANO REPERTOIRE LABORATORY  1 Unit
Advisory: Pass/No Pass.
Three hours laboratory.
Supervised practice of piano repertoire and technical material assigned in MUS 12D.

MUS 12E  PIANO MASTER CLASS  2 Units
Advisory: MUS 12C or equivalent skills.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
The study and performance of selected piano literature from the 18th and 20th
centuries. Emphasis will be on performance, interpretation, practice techniques,
and expansion of repertoire.

MUS 13A  CLASS VOICE I  1 Unit
Advisory: MUS 12A and 13AL taken concurrently.
Two hours lecture-laboratory, one hour laboratory.
Intensive study of music theory, introduction to music philosophy, some
artistic interpretation, and foreign language usage.

MUS 13AL  CLASS VOICE LABORATORY  1 Unit
Advisory: Pass/No Pass.
Three hours laboratory.
Supervised practice of vocal repertoire and technical material assigned in MUS 13A.

MUS 13B  CLASS VOICE II  1 Unit
Prerequisite: MUS 13A.
Corequisite: Concurrent enrollment in MUS 13BL.
Two hours lecture-laboratory, one hour laboratory.
Continuation of MUS 13A with additional emphasis on the development of the
voice as a solo instrument.

MUS 13BL  CLASS VOICE LABORATORY  1 Unit
Advisory: Pass/No Pass.
Three hours laboratory.
Supervised practice of vocal repertoire and technical material assigned in MUS 13B.

MUS 13C  CLASS VOICE III  1 Unit
Prerequisite: MUS 13A and 13B.
Corequisite: Concurrent enrollment in MUS 13CL.
Two hours lecture-laboratory, one hour laboratory.
Continuation of MUS 13A and 13B, with additional emphasis on musical phrasing,
artistic interpretation, and foreign language usage.

MUS 13CL  CLASS VOICE LABORATORY  1 Unit
Advisory: Pass/No Pass.
Three hours laboratory.
Supervised practice of vocal repertoire and technical material assigned in MUS 13C.

MUS 14A  BEGINNING CLASSICAL GUITAR  2 Units
Advisory: Concurrent enrollment in MUS 14AL.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
A guitar fundamentals course that places emphasis on reading standard notation in
the first position. Techniques such as rest stroke, free stroke, and correct left hand
position are covered. Fundamental exercises and pieces will be played by the student
in class as the instructor provides accompaniment. Includes an overview of the literature
and the major performers of the classical guitar. No public performances are required.

MUS 14AL  CLASSICAL GUITAR LABORATORY  1 Unit
Corequisite: Concurrent enrollment in MUS 14A.
May be taken six times for credit.
Two hours laboratory, one hour supervised practice.
Supervised practice in performance methods and techniques in the manner of
playing classical guitar.

MUS 14B  INTERMEDIATE CLASSICAL GUITAR  2 Units
Advisory: MUS 14A and concurrent enrollment in MUS 14BL.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
Continuation of MUS 14A. Covers more advanced techniques for the right and
left hands. Includes reading standard notation up to the 5th position. Increased
emphasis is placed on solo guitar literature in addition to ensemble literature. No
public performances are required.
MUS 14BL  CLASSICAL GUITAR LABORATORY 1 Unit
Corequisite: Concurrent enrollment in MUS 14B.
May be taken six times for credit.
Two hours laboratory, one hour supervised practice.
Supervised practice in performance methods and techniques in the manner of playing classical guitar.

MUS 14C  ADVANCED CLASSICAL GUITAR 1 Unit
Advisory: MUS 14B and concurrent enrollment in MUS 14CL.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
Continuation of MUS 14B. Covers more advanced techniques for the right and left hands. Includes reading standard notation up to the 9th position. Includes more complex solo ensemble literature. Additional class time is spent with lectures, demonstrations and performances. No public performances are required.

MUS 14CL  CLASSICAL GUITAR LABORATORY 1 Unit
Corequisite: Concurrent enrollment in MUS 14C.
May be taken six times for credit.
Two hours laboratory, one hour supervised practice.
Supervised practice in performance methods and techniques in the manner of playing classical guitar.

MUS 15A  BEGINNING FOLK GUITAR 2 Units
May be taken six times for credit.
Two hours lecture, one hour laboratory.
A study of beginning guitar techniques with a concentration on folk music. Traditional and contemporary folk songs will be used to demonstrate the development of right and left hand techniques and introduce the student to Folk Guitar. No public performances are required.

MUS 15AL  FOLK GUITAR LABORATORY 1 Unit
Corequisite: Concurrent enrollment in MUS 15A.
May be taken six times for credit.
Two hours laboratory, one hour supervised practice.
Supervised practice in performance methods and techniques in the manner of playing folk guitar.

MUS 15B  INTERMEDIATE FOLK GUITAR 2 Units
Prerequisite: MUS 15A or equivalent.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
Development of traditional finger-picking style playing and spectrums techniques. Solo and ensemble performance on an intermediate level. Emphasis on reading traditional notation, chord symbols and tablature.

MUS 15B  FOLK GUITAR LABORATORY 1 Unit
Corequisite: Concurrent enrollment in MUS 15B.
May be taken six times for credit.
Two hours laboratory, one hour supervised practice.
Supervised practice in performance methods and techniques in the manner of playing folk guitar.

MUS 15C  ADVANCED FOLK GUITAR 2 Units
Prerequisite: MUS 15A and 15B or equivalent.
May be taken six times for credit.
Two hours lecture, one hour laboratory.
Further instruction in the playing of folk guitar with an emphasis on fingerpicking, barre chords, and altered tunings. Sight reading in tablature, chord symbols and standard notation.

MUS 15CL  FOLK GUITAR LABORATORY 1 Unit
Corequisite: Concurrent enrollment in MUS 15C.
May be taken six times for credit.
Two hours laboratory, one hour supervised practice.
Supervised practice in performance methods and techniques in the manner of playing folk guitar.

MUS 27  SYMPHONY & CONCERTO 4 Units
Advisory: MUS 1.
Four hours lecture.
Development of the symphony and concerto from the late 16th Century to the present. Emphasis on musical elements (compositional technique, performance practice and musical style) and on the forms' reflection of the social, religious, political and aesthetic values of each time period. Special focus on works currently being performed by local orchestras.

MUS 34  HONORS INSTITUTE SEMINAR IN MUSIC 1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in music.

MUS 35  SPECIAL PROJECTS IN MUSIC (HONORS) 2 Units
May be taken six times for credit.
Six hours laboratory.
A laboratory course involving an approved student project in music such as theory, history and literature, and applied music. Performances or music productions for community musical events may be planned and executed in this class.

MUS 50A  MUSIC BUSINESS 4 Units
Four hours lecture, two hours laboratory.
Study of legal and business aspects of the music industry. Emphasis on publishing, licensing, and promotion. Copyright law, interaction between songwriters and music publishers, record companies, distributors and the rules that govern them. How music is licensed, service marks, trademarks and patents. The role of lawyers, agents, personal managers, producers and promoters. Licensing and copyright of intellectual properties in the growing multimedia industry and the internet. Synchronization of music in film, video and television. Career development and how major/independent labels market and distribute media.

MUS 50B  ENTERTAINMENT LAW & NEW MEDIA 4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.
In-depth study and discussion of entertainment law as it applies to the emerging new media market and the music industry. Internet sales and distribution for new media, file sharing, licensing for the Web, and digital copyright considerations. Promotional packages, Web site development, delivery systems, career promotion strategies, contracts and touring. In-depth analysis of contracts and regulations/potential of starting an independent media production company, record label, or online retail site. Sampling licenses/international copyright law and publishing.

MUS 55  COMPOSING & ARRANGING WITH DIGITAL NOTATION 4 Units
Formerly: MUS 56A
May be repeated two times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Introduction to the music software Sibelius® for composing. Learn the basics of professional music notation. Test and develop ideas for songwriting, composing, arranging and orchestrating. Integrate Sibelius with Pro Tools and Reason, converting MIDI files to notation. Write songs and compositions to develop notation skills.

MUS 58A  SONGWRITER'S WORKSHOP I 4 Units
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Workshop course for songwriters that focuses on contemporary songwriters such as Dave Matthews, Kurt Cobain, Sarah McLachlan, Joni Mitchell, Stevie Wonder, John Mayer, James Taylor, etc. Each week a different songwriting technique is presented, along with student performances and songwriting assignments. In class listening and discussion of various songwriting styles along with guest speakers, songwriters and industry representatives.

MUS 58B  SONGWRITER'S WORKSHOP II 4 Units
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Continuation of MUS 58A. Workshop course for songwriters that focuses on contemporary songwriters such as Dave Matthews, Kurt Cobain, Sarah McLachlan, Joni Mitchell, Stevie Wonder, John Mayer, James Taylor, etc. Each week a different songwriting technique is presented, along with student performances and songwriting assignments. In class listening and discussion of various songwriting styles along with guest speakers, songwriters and industry representatives.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
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MUS 58C
SONGWRITER’S WORKSHOP III
4 Units
Prerequisites: MUS 58A, MUS 58B or the equivalent. May be taken four times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Continuation of MUS 58A and 58B. Workshop course for songwriters that focuses on contemporary songwriters such as Dave Matthews, Kurt Cobain, Sarah McLachlan, Joni Mitchell, Stevie Wonder, John Mayer, James Taylor, etc. Each week a different songwriting technique is presented, along with student performances and songwriting assignments. In-class listening and discussion of various songwriting styles along with guest speakers, songwriters and industry representatives.

MUS 59
APPLIED SONGWRITING
4 Units
May be taken six times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Writing original songs for review by industry A&R reps and publishers. Active listening and constructive critiquing of original student compositions. This course prepares the student to produce a demo recording of original material for presentation at the West Coast Songwriter’s Conference at Foothill.

MUS 60
AUDIO RECORDING TECHNIQUES
4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory. Design, set up and operation of an audio/video recording studio in a small environment. Space considerations, electrical requirements and acoustic treatment options. Computer requirements including processor speed, memory requirements, data storage devices and monitor selection/placement, MIDI keyboard types and compatibility, mixer selection and setup, cable selection and care, microphone design, and USB/firewire interface options. Software programs and compatibility issues. How to produce recordings from start to finish in a home studio.

MUS 60A
PRODUCING IN THE HOME STUDIO I
4 Units
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Design, set up and operation of an audio/video recording studio in a small environment. Space considerations, electrical requirements and acoustic treatment options. Computer requirements including processor speed, memory requirements, data storage devices and monitor selection/placement, MIDI keyboard types and compatibility, mixer selection and setup, cable selection and care, microphone design, and USB/firewire interface options. Software programs and compatibility issues. How to produce recordings from start to finish in a home studio.

MUS 60B
PRODUCING IN THE HOME STUDIO II
4 Units
Two hours lecture, two hours lecture-laboratory, three hours laboratory. In-depth operation of an audio/video recording studio in a small environment. Microphone selection and placement, creative sound treatments in non-traditional environments, and application of plug-in effects. Use of auxiliary tracks and busses. Mixing and mastering in various digital formats.

MUS 62
SOUND REINFORCEMENT
4 Units
May be taken three times for credit.
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Setup and operation of live sound reinforcement systems. Basic design and operation of analog mixing boards. Microphone type, design, construction and selection. Monitor systems and their application with musical groups and performers. Practice with live musicians in practice and performance settings.

MUS 64A
JAZZ & SWING
4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory. History and analysis of jazz styles and trends from the development of Ragtime to 1969. An introduction to the instruments, performers, composers, compositions and recordings that defined jazz before the introduction of rock as the primary commercial music style in the US. Presentation of jazz and swing recordings, videos and print resources. Major artists include Louis Armstrong, Duke Ellington, Benny Goodman, Glenn Miller, Lionel Hampton, Count Basie, Charlie Parker, Dizzy Gillespie, Miles Davis, Sonny Rollins, Charles Mingus and John Coltrane. Style periods include Early (‘Dixieland’), Big Band, Jump, Swing, Bebop, Hard Bop, Cool, Modal, and Avant-Garde Jazz.

MUS 64B
FUNK, FUSION & HIP HOP
4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory. History and analysis of funk, fusion and Hip Hop styles from 1969 to the present. An introduction to the instruments, performers, composers, compositions and recordings that defined/define funk, fusion & Hip Hop from the collapse of traditional jazz and the introduction of funk and jazz fusion to the present. Presentation of recordings, videos and print resources. Major artists include Miles Davis, Herbie Hancock, James Brown, Sly Stone, Weather Report, Wayne Shorter, George Clinton and P-Funk, Jaco Pastorious, Pat Metheny, Grandmaster Flash, Africa Bambaataa, Chuck D. and Dr. Dre. Style periods include Early Jazz Fusion, Early Funk, East Bay Funk, Groove and Smooth Jazz, Modern Fusion, Early Hip Hop and Commercial Rap.

MUS 64C
SALSA & LATIN JAZZ
4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory. History and analysis of Afro-Caribbean musical styles that have developed into modern Salsa and Latin Jazz. An introduction to the instruments, performers, composers, compositions and recordings that defined/define Salsa and Latin Jazz. Presentation of recordings, videos and print resources. Major artists include Tito Puente, Machito, Perez Prado, Eddie Palmieri, Giovanni Hidalgo, Israel ‘Cachao’ Lopez, Mario Bauza, Frankie Ruiz, Celia Cruz, Luis Enrique, Paquito D’Rivera, Poncho Sanchez, Chuchu Valdez, and others. Styles include Danzon, Son, Mambo, Rumba, Guaguanco, Guaracha, Son Montuno, Cha Cha, Guajira, Cumbia, Plena, Bomba, Merengue and others.

MUS 65
CAREERS IN MUSIC
4 Units
Not Repeatable
Two hours lecture, two hours lecture-laboratory, three hours laboratory. An overview of the music industry and its career opportunities. Areas of study include studio management and engineering, music merchandising on the local and national levels, artist promotion, concert promotion, concert management, music contracting, graphic support in music recording, the role of the agent/personal manager, technical support in electronic music, technical support in traditional music, video and film production and editing, instrument maintenance and repair, and music retailing. Guest lectures from local industry professionals, field trips to studios, production facilities and retail facilities.

MUS 66A
INTRODUCTION TO DIGITAL AUDIO: PRO TOOLS
4 Units
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Introduction to creating music with computers, keyboards and audio samples (beats) using Pro Tools®. Basic principles and use of MIDI sequencing/audio software. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Basic music production using Pro Tools®. All styles are included, and prior musical training is not required.

MUS 66B
INTRODUCTION TO DIGITAL AUDIO: REASON & PRO TOOLS
4 Units
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Creating and editing digital audio with Pro Tools® and Reason®. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Introduction to using Reason® both as a stand-alone digital audio workstation as a ReWire application within the Pro Tools® production environment.

MUS 66C
INTRODUCTION TO DIGITAL Audio: LIVE, REASON & PRO TOOLS
4 Units
Two hours lecture, two hours lecture-laboratory, three hours laboratory. Creating and editing digital audio with Pro Tools®, Reason®, and Ableton Live®. Using Live® as a stand-alone digital audio workstation and performance instrument. Pro Tools® RTAS and Audio Suite plug-in effects and how they are used in the production of complete musical arrangements in digital music. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music.

MUS 68
CAREERS IN NEW MEDIA
1 Unit
Advisory: Not open to students with credit in ART 71, VART 53, GRDS 51, PHOT 67. Two hours lecture-laboratory. Exploring the field of New Media. Survey of transfer schools, new media art studios, company art departments, media agencies and job opportunities. Overview of careers and functions.
MUS 80 RECORDING ARTS I: SOUND REINFORCEMENT 4 Units
Prerequisite: Not open to students with credit in DRAM 80.
Two hours lecture, three hours lecture-laboratory, three hours laboratory.
Introduction to fundamental concepts and techniques of mixing boards, amplifiers, microphones, signal processors and their application to both live and studio sound reinforcement. Basic introduction to computer based recording with Digidesign's Pro Tools. Microphone placement, physics of sound as it relates to recording, sound reinforcement and studio setup techniques.

MUS 80A RECORDING ARTS I: RECORINDING
STUDIO BASICS
Formerly: MUS 80
not repeatable
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Introduction to fundamental concepts and techniques of mixing boards, amplifiers, microphones, signal processors and their application to both live and studio sound reinforcement. Basic introduction to computer based recording with Digidesign Pro Tools. Microphone placement, physics of sound as it relates to recording, sound reinforcement and studio setup techniques.

MUS 81A RECORDING ARTS II: AUDIO EDITING & PRODUCTION
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Creating and editing soundtracks and audio for digital video, music video and film. Recording live sound, and integrating sound effects from a digital library. Dialogue editing and re-recording (looping), and musical soundtrack creation. Synchronization of audio to video using timecode, aesthetic quality of sound and music as it relates to video content, and the production of video/audio projects using Final Cut Pro® and Pro Tools®.

MUS 81B RECORDING ARTS II: AUDIO FOR VIDEO
Two hours lecture, three hours lecture-laboratory, three hours laboratory.
Synchronization of audio to video using timecode, aesthetic quality of sound and music as it relates to video content, and the production of video/audio projects using Final Cut Pro® and Pro Tools®.

MUS 81C RECORDING ARTS II: MIXING & MASTERING
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Recording, mixing and mastering multitrack recordings using Digidesign's Pro Tools. Application of RTAS, TDM and Audio Suite DSP effects to the original multitrack recordings and stereo master. Creation of master soundfiles and basic Audio CD burning. Comparison and contrast of various styles of mixing for different mediums and formats. Production of MPEG (mp3) audio files as well as compression techniques and formats for internet distribution.

MUS 81D RECORDING ARTS II: PRO TOOLS & PLUG INS
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Advanced editing and mixing techniques with Pro Tools. Creative applications of plug-ins used in contemporary music production and sound design. Signal processing, equalization, compression, Beat Detective, distortion, reverb, delay, vocal tuning and pitch correction, virtual instruments, synthesizer and sampler programming, advanced plug-in automation techniques.

MUS 82A RECORDING ARTS III: PRO TOOLS 101
Formerly: MUS 82B
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Study and application of Digidesign-approved curriculum leading to Pro Tools 100 level certification from Digidesign. Pro Tools 101 focuses on the foundation skills needed to learn and function within the Pro Tools environment at a basic level. The aim of this course is to familiarize students with Pro Tools in an exclusive recording and editing environment, and prepare them for enrollment in Pro Tools 200 and 300 level courses.

MUS 82B RECORDING ARTS III: PRO TOOLS 110 DIGIDESIGN CERTIFICATION
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Essential Pro Tools concepts and techniques. Recording, editing and routing audio and MIDI data. Managing sessions and tracks, using virtual instruments, plug-ins, editing techniques, loop recording. Understanding time scales and automation. This is a required class for the Digidesign Pro Tools Operator Certification.

MUS 85A MUSIC & MEDIA: EDISON TO HENDRIX 4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.
Introductory study of the History and development of popular music from the inception of recording through the first televised performances of the Beatles in the U.S. Development of media delivery including recording, radio, television and how those delivery systems changed both the content of music, and its use by the public. The class will investigate the influence of media on the development of styles such as jazz, swing, country, rockabilly and rock and roll, including societal changes brought about by media delivery of music and how it became associated with graphic imagery such as television and cinema.

MUS 85B MUSIC & MEDIA: HENDRIX TO HIP HOP 4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.
Introductory study of the History and development of popular music from 1964 through the present in the U.S. The class will examine the development of media delivery systems after The Beatles’ first appearances on television through the growth of rock and alternative styles. Styles and artist to be studied are such as punk, ska, the rebirth of country music and the rise of hip hop culture, examining artists such as Jimi Hendrix, Pink Floyd, David Bowie, Frank Zappa, Prince, The Police, Chuck D. and others. The class will study the development and growth of music videos as an art form and the delivery/promotional systems developed for them such as MTV.

MUS 86 INTRODUCTION TO DIGITAL SOUND, VIDEO & ANIMATION
Prerequisite: Not open to students with credit in VART 86, GID 80.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Basic instruction using the computer for emerging media technologies: digital sound, video editing and animation. Emphasis on time-based media and creative problem solving.

MUS 90 MUSIC FOR MINORS TRAINING 3 Units
Advisory: Instructor approval based on demonstrated ability to maintain rhythm and pitch, and some recent child-related leadership experience. May be taken twice for credit.
Six hours lecture-laboratory.
Training of volunteers (docents) to teach a comprehensive music program for elementary age classes.

MUS 150 MUSIC LABORATORY .5 Unit
MUS 150X 1 Unit
MUS 150Y 1.5 Units
MUS 150Z 2 Units
Any combination of MUS 150, 150X, 150Y & 150Z may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Supervised activities in musical skills and materials related to music courses in which students are currently enrolled.

MUS 190 MUSIC FOR MINORS TRAINING 3 Units
Advisory: Instructor approval based on demonstrated ability to maintain rhythm and pitch, and some recent child-related leadership experience. May be taken twice for credit.
Six hours lecture-laboratory.
Training of volunteers (docents) to teach a comprehensive music program for elementary age classes.

MUSP 19 CONCERT CHOIR 2 Units
Prerequisite: Enrollment subject to standardized audition administered by college staff to determine ability or technical proficiency of the student. May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory.
In-depth study of choral techniques and performance through the rehearsal of a broad range of choral music. Concerts on and off campus will emphasize a high level of performance. Attendance at all performances is required.

MUSIC PERFORMANCE
Fine Arts & Communication Division (650) 949-7016
Foothill College 2007–2008 www.foothill.edu
MUSP 20  REPERTORY CHORUS  2 Units
Prerequisite: Enrollment subject to standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director. May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory. Study, rehearsal and performance of choral repertoire drawn from a broad historical and stylistic range. Includes sacred and secular material, with focus on developing a varied concert program. Performances both on and off campus. Attendance at all performances required.

MUSP 21  COLLEGE CHORALE  2 Units
May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory. Sing in harmony a variety of choral music, including spirituals, folk songs, pop hits, standard octavos and Broadway medleys. This course is open without regard for previous musical background. Attendance at all scheduled performances is required.

MUSP 22  JAZZ SINGERS: INTRODUCTION TO VOCAL JAZZ ENSEMBLE  2 Units
Prerequisite: Enrollment subject to a standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director. May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory. Study, rehearsal and performance of contemporary vocal ensemble repertoire drawn from the popular and jazz idioms. For students with little or no experience in vocal jazz. Attendance at all performances required.

MUSP 23  FANFAIRS: ADVANCED VOCAL JAZZ ENSEMBLE  2 Units
Prerequisite: Enrollment subject to standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director. May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory. Study, rehearsal and performance of contemporary vocal ensemble repertoire drawn from the popular and jazz idioms. For students with previous experience in vocal jazz. Attendance at all performances required.

MUSP 24  GOSPEL CHORUS  2 Units
MUSP 24X  4 Units
MUSP 24Y  6 Units
MUSP 24Z  8 Units
Any combination of MUSP 24, 24X, 24Y & 24Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for each two units of credit. The study, rehearsal, and performance of choral repertoire drawn from African-American music of the church. Concert performances both on and off campus. Attendance at all performances required.

MUSP 25  AEOLIAN CHORALE  2 Units
Prerequisite: Enrollment subject to an audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory. The intermediate study, rehearsal and performance of choral literature for women’s voices. Concerts are given both on and off campus. Attendance at all concerts is required.

MUSP 26  ADVANCED WOMEN’S CHORUS  2 Units
MUSP 26X  4 Units
MUSP 26Y  6 Units
MUSP 26Z  8 Units
Prerequisite: Enrollment subject to audition. Designed as an advanced performance course for singers interested in aspiring to the highest levels of musical performance. Prior singing experience or an instrumental background is required. Fundamental sight reading. Any combination of MUSP 26, 26X, 26Y & 26Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit. Study, rehearsal, and performance of choral repertoire specifically written for women’s voices. Includes musical styles from the Medieval Period to Contemporary Classical music. Concert performances both on and off campus. Attendance at all performances required.

MUSP 27  RENAISSANCE VOCAL ENSEMBLE  2 Units
MUSP 27X  4 Units
MUSP 27Y  6 Units
MUSP 27Z  8 Units
Prerequisite: Enrollment subject to a standard audition administered by the college staff which demonstrates the student’s potential for reaching a high level of performance proficiency. Any combination of MUSP 27, 27X, 27Y & 27Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit. Training for the performance of choral music primarily from the Renaissance and Baroque periods. Emphasis will be on the development of the basic choral skills of rhythmic and melodic accuracy, good blend, correct phrasing and clear articulation. Attendance at all scheduled performances is required.

MUSP 28  CHAMBER SINGERS  2 Units
Prerequisite: Enrollment subject to a standard audition administered by the college staff which demonstrates that the student’s ability or technical proficiency is at a level necessary for group public performance. May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory. Study and performance of sacred and secular choral repertoire from the 15th to 20th centuries. Unaccompanied works and music with instrumental accompaniment will be included. Emphasis on the cultivation of skills needed to sing music from a variety of choral styles and historical periods. Attendance at all scheduled performances is required.

MUSP 29  MADRIGAL SINGERS  2 Units
Prerequisite: Enrollment subject to a standard audition, administered by the college staff which demonstrates that a student’s ability or technical proficiency is at a level necessary for group public performance. May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory. Study and performance of secular music in the madrigal style from all periods. Emphasis will be on musical performance as theatre. Performances will be in costume with narration. Participation by players of early instruments is encouraged. Attendance at all scheduled performances is required.

MUSP 30  COLLEGE BAND  2 Units
MUSP 30X  4 Units
MUSP 30Y  6 Units
MUSP 30Z  8 Units
Prerequisite: Enrollment subject to an audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. Any combination of MUSP 30, 30X, 30Y & 30Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit. Study and performance of early wind band repertoire. Emphasis will be on the literature of the Renaissance and Baroque eras of music History. The learning of correct playing techniques, particularly ornamentation; in large ensemble performance will be stressed. Attendance at all scheduled performances is mandatory.

MUSP 31  CONCERT BAND  2 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. May be taken six times for credit.
Three hours lecture-laboratory, two hours laboratory. Study and performance of classic band repertoire. Emphasis will be on the literature of the Classic and Romantic eras of music History. The learning of correct playing techniques, particularly the stylistic demands of these two periods of ensemble performance, will be stressed. Attendance at all scheduled performances is mandatory.
MUSP 32  SYMPHONIC WIND ENSEMBLE  2 Units
MUSP 32X  4 Units
MUSP 32Y  6 Units
MUSP 32Z  8 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. Any combination of MUSP 32, 32X, 32Y & 32Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit. Study and performance of 20th Century band repertoire. The learning of correct playing techniques, particularly the stylistic demands of 20th Century performance, will be stressed. Attendance at all scheduled performances is mandatory.

MUSP 33  EVENING JAZZ ENSEMBLE  2 Units
MUSP 33X  4 Units
MUSP 33Y  6 Units
MUSP 33Z  8 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. Any combination of MUSP 33, 33X, 33Y & 33Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit. Study and preparation of advanced level materials suitable for the large jazz ensemble. Selected published music of the 1980's to current will be studied and performed. Attendance at all scheduled performances is mandatory.

MUSP 34  REPERTORY JAZZ ENSEMBLE  2 Units
MUSP 34X  4 Units
MUSP 34Y  6 Units
MUSP 34Z  8 Units
Prerequisite: MUSP 33 or equivalent. Any combination of MUSP 34, 34X, 34Y & 34Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit. Study and preparation of professional level materials suitable for the large jazz ensemble. Attendance at all scheduled performances is mandatory.

MUSP 35  STAGE BAND  2 Units
MUSP 35X  4 Units
MUSP 35Y  6 Units
MUSP 35Z  8 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. Any combination of MUSP 35, 35X, 35Y & 35Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit. Study and preparation of beginning-level materials suitable for the large jazz ensemble. This course is intended for the less experienced player in this idiom. The basic jazz techniques related to big band performance will be stressed. Attendance at all scheduled performances is mandatory.

MUSP 36  JAZZ LABORATORY BAND  2 Units
MUSP 36X  4 Units
MUSP 36Y  6 Units
MUSP 36Z  8 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. Advisory: MUS 10 or equivalent experience recommended. Any combination of MUSP 36, 36X, 36Y & 36Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit. Study and preparation of intermediate level materials suitable for the large jazz ensemble. Attendance at all scheduled performances is mandatory.
MUSP 43  CONTEMPORARY JAZZ ENSEMBLE  2 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. May be taken six times for credit.
Three hours lecture-laboratory, two hours rehearsal and performance.
Study and preparation of advanced-level materials suitable for the large jazz ensemble. Selected music written in progressive or modern styles from the '60s-'90s will be studied and performed. Attendance at all scheduled performances is mandatory.

MUSP 44  RHYTHM & BLUES ENSEMBLE  1 Unit
Advisory: MUS 10 or equivalent.
May be taken six times for credit.
A performance ensemble specializing in the repertoire of the blues, rock, and popular music of the 1950s to the present day. Open to singers and instrumentalists of intermediate-level or above. Minimum of one public performance per quarter.

MUSP 45  CHAMBER MUSIC  2 Units
May be taken six times for credit.
Three hours lecture-laboratory, two hours supervised practice.
Reading, preparation and performance of chamber music literature for various instrumental combinations. Attendance at all performances is required.

MUSP 45V  CHAMBER ENSEMBLE: STRINGS  1 Unit
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. May be taken six times for credit.
Three hours laboratory, one hour supervised practice.
Reading, preparation, and performance of chamber music literature for various percussion instrumental combinations. Attendance at all performances is required.

MUSP 45W  CHAMBER ENSEMBLE: WINDS  1 Unit
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. May be taken six times for credit.
Three hours laboratory, one hour supervised practice.
Reading, preparation, and performance of chamber music literature for various instrumental combinations. Attendance at all scheduled performances is required.

MUSP 49  MUSIC REHEARSAL & PERFORMANCE  2 Units
MUSP 49X  4 Units
MUSP 49Y  6 Units
MUSP 49Z  8 Units
Advisory: Pass/No Pass.
Any combination of MUSP 49, 49X, 49Y & 49Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit.
Supervised participation in public performance in a music department ensemble. Enrollment is for the duration of one particular performance or concert tour.

MUSP 61A–F  APPLIED JAZZ TRAINING  2 Units
Prerequisite: Standardized placement performance examination by the college music staff. May be taken six times for credit.
One-half hour lecture, one and one-half hours laboratory, five hours laboratory.
One-half hour per week lecture-recital instruction by the college staff, and one lesson per week with a private instructor by the student. A minimum of 10 one-half hour lessons per quarter must be verified.

MUSP 95X  PERFORMANCE PRACTICES IN MUSIC  1.5 Units
MUSP 95Y  2 Units
Prerequisite: Standardized placement performance examination by the college music staff. Any combination of MUSP 95, 95X & 95Y may be taken a maximum of six times for credit.
Six hours laboratory.
A study of historical performance practices of vocal and instrumental music through group rehearsal and public performance of selected works. Attendance at all scheduled performances is required.

MUSP 96  CONCERT PREPARATION & PRESENTATION  1 Unit
Prerequisite: Standardized placement performance examination by the college music staff. May be taken a maximum of six times for credit.
Four hours laboratory.
A laboratory course using techniques and procedures for developing quality musical performances. Attendance at all scheduled performances is required.

MUSP 191  CHORAL REPERTOIRE PRACTICUM  2 Units
MUSP 191X  3 Units
MUSP 191Y  4 Units
MUSP 191Z  5.5 Units
Prerequisite: Enrollment subject to audition. Advisory: Pass/No Pass.
Any combination of MUSP 191, 191X, 191Y & 191Z may be taken for a maximum of 33 units.
Three hours lecture-laboratory, one and one-half hours laboratory for two units of credit.
Study, rehearsal, and performance of choral repertoire. Designed as an advanced performance course for ensemble singers wishing to explore the vast choral repertoire more fully, including music from medieval to contemporary, and non-Western music. Concert performances both on and off campus. Attendance at all performances required.

MUSP 193  INSTRUMENTAL REPERTOIRE PRACTICUM  2 Units
MUSP 193X  3 Units
MUSP 193Y  4 Units
MUSP 193Z  5.5 Units
Prerequisite: Enrollment subject to audition. Advisory: Pass/No Pass.
Any combination of MUSP 193, 193X, 193Y & 193Z may be taken for a maximum of 33 units.
Three hours lecture-laboratory, one and one-half hours laboratory for two units of credit.
Study, rehearsal, and performance of instrumental repertoire. Designed as an advanced performance course for players of string, wind, and percussion instruments wishing to explore the vast instrumental repertoire more fully, including music from renaissance to contemporary, and non-western music. Concert performances both on and off campus. Attendance at all performances required.

NANOTECHNOLOGY
Physical Sciences, Mathematics & Engineering Division  (650)949-7259

NANO 51  INTRODUCTION TO NANOTECHNOLOGY  5 Units
Prerequisite: CHEM 30A or equivalent, PHYS 10 or equivalent, and BIOL 10 or equivalent.
Advisory: Not open to students with credit in ENGR 76.
Five hours lecture.
Introduction to the underlying principles and applications of the emerging field of nanotechnology. Intended for a multidisciplinary audience with a variety of backgrounds. Introduces scientific principles and theory relevant at the nanoscale dimension. Discusses current and future nanotechnology applications in engineering and materials, physics, chemistry, biology, electronics and computing, and medicine.
NANO 52 | INTRODUCTION TO MATERIALS SCIENCE | 5 Units
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Five hours lecture.
Introduction to the fundamental science and technology of modern materials, including semiconductors, electronics, MEMS, magnetic recording, carbon nanostructures, polymers and composite materials, and high performance metals and alloys. Topics include a review of the periodic table, atomic and electronic structure, chemical bonding and molecular geometry, crystal structure and crystallization, phase diagrams and phase transitions, and semiconduction. A review of modern materials and material structures includes colloids and particles, metals and alloys, ceramics and glasses, and polymers and thermoplastics. Particular emphasis placed on understanding the basic physics and chemistry of important material processes, such as the physics of solids and importance of defects and impurities in material structures. Depending on student interests, advanced topics can include surface chemistry, quantum structures, and fabrication of nanostructures such as carbon nanotubes and organic thin films.

NANO 53 | MATERIALS CHARACTERIZATION | 5 Units
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Prerequisite: CHEM 30A or equivalent, PHYS 10 or equivalent, and BIOL 10 or equivalent.
Advisory: NANO 52 or equivalent. Students should have a basic knowledge of materials science, physics, and inorganic/organic chemistry.
Five hours lecture.
Focuses on techniques for micro and nano characterization of materials, including surface imaging and analysis techniques. Surveys the physics of instrumentation involved in characterizing materials, the typical approach to analyzing a wide variety of materials, including Micro Electro Mechanical Systems, carbon nanotubes, thin films, polymers, glasses, and other common nanomaterials. Materials analysis approaches to quality assurance and quality control, failure analysis, and problem solving. Hands-on exercises and experiential learning will include use of the Scanning Electron Microscope, Atomic Force Microscope, Auger Electron Spectroscopy, and analysis of X-Ray Photoelectron spectroscopy, Fourier Transform Infrared Spectroscopy, and Raman spectroscopy techniques.

NANO 54 | SURFACES & THIN FILMS | 5 Units
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Prerequisite: CHEM 30A or equivalent, PHYS 10 or equivalent, and BIOL 10 or equivalent.
Advisory: NANO 52 or equivalent. Students should have a basic knowledge of materials science, physics, and inorganic/organic chemistry.
Five hours lecture.
Introduction to the physical chemistry and material properties of surface structures and states, and their importance in building devices at the nanoscale dimension, especially in thin films. The study of surfaces includes review of basic properties and roles of surface mechanisms, forces that lead to surface tension, physisorption and chemisorption, electronic and structural responses to surface termination, surface modification techniques, and modern methods for spectroscopic investigation in the context of industrial applications. The study of thin film fundamentals includes the theory, design, deposition, characterization, and applications in industry. Special topics may include Langmuir-Blodgett films, Self-Assembled Monolayers (SAMs), plasma surface modification, plasma polymerized organic films, and photovoltaics.

NANO 55 | INTRODUCTION TO MICRO & NANO ELECTRONICS | 5 Units
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Prerequisite: ENGR 76 or NANO 51 and 52.
Advisory: ENGR 35, 37, PHYS 4D, MATH 2A or 10.
Five hours lecture.
Introduces and explains terminology, underlying principles, fundamental operational models, properties, and concepts associated with modern electronic circuits and their applications. Fundamentals of carrier generation, transport, recombination, and biasing in semiconductors. Provides insight into the internal workings of the "building-block" device structures such as the PN-junction diode, metal semiconductor contacts, bipolar junction transistors, MOS capacitors, and field effect devices, solar cells, and LEDs. First order device models that reflect physical principles and are useful for integrated circuit analysis and design. Introduction to quantum effects.

NANO 56 | PRINCIPLES OF MEMS, NEMS & SENSORS | 5 Units
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Prerequisite: ENGR 76 or NANO 51 or equivalent.
Five hours lecture.
Introduction to the underlying principles and applications of micro and nanoscale sensors and actuators, focusing on the use of fabrication technology for their realization. Basic mechanisms of transduction and the relative merits of different technologies. The basic principles for sensing displacement, force, pressure, acceleration, temperature, gases, and other physical parameters. Industry applications, design challenges, and manufacturing issues. Emerging micro and nano machining techniques and directions for future research.

NANO 57 | INTRODUCTION TO MICRO & NANO FABRICATION TECHNIQUES | 5 Units
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Prerequisite: ENGR 76 or NANO 51 and 52 or equivalent.
Five hours lecture.
Introduction to the underlying principles, techniques, and applications of fabrication technology from the top down and bottom up perspective. For students interested in the physical bases and practical methods of micro and nanoscale fabrication technology or the impact of technology on device design. Topics: the fundamental principles and methods of semiconductor IC fabrication processes, crystal growth, oxidation, doping, etching, deposition, current lithography techniques, next generation lithography techniques, molecular manufacturing, DNA templating, protein assembly, packaging, back-end processing, quality control and yield analysis.

NANO 58 | MICRO & NANO FABRICATION TECHNIQUES LABORATORY | 5 Units
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Prerequisite: NANO 56 or 57.
Five hours lecture.
This course involves hands on practical laboratory fabrication experience, process simulation using SUPREM or ATHENA, and testing of a simple fabricated device. Emphasis is on the practical aspects of fabrication, such as safety, silicon wafer cleaning, lithography, etching, oxidation, diffusion, ion implantation, deposition, and wafer testing. Process simulators (SUPREM or ATHENA) are used to illustrate concepts, provide insight to the lab experience, and compare actual results to expected results. Class size will be limited and divided into groups. In addition to class lectures, each group will meet once a week for a minimum of a 4-hour guided lab session. Each group will be guided by an instructor or teaching assistant. The laboratory guide will give a demonstration of the fabrication equipment and the process, and then individuals will be able to participate in processing under his or her supervision.

NANO 59 | NANOBIOTECHNOLOGY SCIENCES | 5 Units
---
Prerequisite: ENGR 76 or NANO 51 and BTCE 52A.
Five hours lecture.
Examines the convergence of nanotechnology and biotechnology. Investigates biology as a small nanotechnology system, structural and functional principles in biomimetics and biomolecular engineering. Emphasis on self-assembly of organic and inorganic nanostructures using proteins as molecular nanomachines and DNA templating. Explores the use of artificial genomes and synthetic proteins in novel cellular systems. Basic knowledge of design and use of biosensors and BioMEMS, microarray technology (GeneChip), nanopore DNA sequencing, and microfluidic devices. Special topics may include digital cells and insilico biology, biomaterials, and biomedical devices designed and engineered using micro and nanotechnology.

NANO 60 | INTRODUCTION TO CLEAN TECHNOLOGY | 5 Units
---
Prerequisite: CHEM 30A or equivalent, PHYS 10 or equivalent, and BIOL 10 or equivalent.
Five hours lecture.
Introduction to the field of clean technology, known as ‘cleantech,’ intended for a multidisciplinary audience with a variety of backgrounds and interests. Emphasizes technologies and applications in engineering and materials, physics, chemistry, and related fields in nanoscience especially related to environmental remediation, and new engineering approaches to fuel cells, motors, batteries, and insulation, among other aspects of energy conservation. Introduces principles and theory relevant to solar energy using silicon and other thin film and nanoscale approaches. Discusses current and future trends in global energy demand and production, emphasizing the urgent need for both increased capacity and zero emission technology.
NANO 61 INTRODUCTION TO MICRO & NANO FABRICATION TECHNIQUES 5 Units
Prerequisite: Satisfactory completion of the core curriculum in the nanotechnology certificate, to include at least three courses from NANO 53 through 60, and 51.
Five hours lecture.
Capstone course requiring research to be undertaken by students during their tenure in the Nanoscience program, or a properly documented experiential learning outcome. Research can be conducted through any college or university, but must include a course number and evaluation by properly credentialed faculty. A range of interdisciplinary projects will be accepted by contributing schools, including departments of Chemistry, Biochemistry, Biology, Biotechnology, Physics, Engineering, and Materials Science, enabling students to carry out experimental investigations in any applied area of nanotechnology. Work will be accompanied by a 15 to 25-page research document, formatted consistently with scholarly publications, including necessary citations. Internships should include a description of research goals and objectives, learning outcomes, and wherever possible, include entry into an electronic portfolio. Internships from NASA, SRI, and other universities are applicable for students to pursue.

OCEANOGRAPHY
Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/psme/

OCEN 10 GENERAL OCEANOGRAPHY 4 Units
Three hours lecture, one hour field trip.
A review of modern concepts in marine geology and physical oceanography that describe the oceans as a unique environment of critical importance to human well-being. Emphasis is on specific topics: sedimentary and structural framework of the ocean margins and deep basins, theory of plate tectonics, water mass formation, wind-driven ocean currents, surface water waves and beaches, and tides. A discussion of shipboard instrumentation and underwater vehicles is included.
One Saturday field trip is required.

OCEN 34 HONORS INSTITUTE SEMINAR IN OCEANOGRAPHY 1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in oceanography. Specific topics to be determined by the instructor.

OCEN 36 SPECIAL PROJECTS IN OCEANOGRAPHY 1 Unit
OCEN 36X 2 Units
OCEN 36Y 3 Units
Advisory: High interest in the pursuit of oceanographical knowledge.
Previous experience in oceanography recommended.
Any combination of OCEN 36, 36X & 36Y may be taken for a maximum of six units.
Three hours laboratory for each unit of credit.
A seminar in directed reading and discussion in oceanography. An opportunity to do oceanographical research. An opportunity to assist in the planning, development and presentation of oceanography programs.

PERFORMING ARTS
Fine Arts & Communication Division (650) 949-7479
www.foothill.edu/fa/

P A 11 THEATRICAL REHEARSAL & PERFORMANCE 2 Units
P A 11X 4 Units
P A 11Y 6 Units
P A 11Z 8 Units
Prerequisite: Not open to students with credit in DRAM 49.
Any combination of P A 11, 11X, 11Y & 11Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit.
Supervised participation in scheduled theatrical productions, as cast or crew. Enrollment in each course is for the duration of the production.

P A 21 MUSIC REHEARSAL & PERFORMANCE 2 Units
P A 21X 4 Units
P A 21Y 6 Units
P A 21Z 8 Units
Advisory: Pass/No Pass
Any combination of P A 21, 21X, 21Y & 21Z may be taken for a maximum of 48 units.
Three hours lecture-laboratory, two hours laboratory for two units of credit.
Supervised participation in public performance in a music department ensemble.
Enrollment is for the duration of one particular performance or concert tour.

P A 111 PERFORMANCE PRACTICES IN THEATRE 2 Units
P A 111X 4 Units
P A 111Y 8 Units
P A 111Z 16 Units
Prerequisite: Enrollment subject to audition.
Advisory: Pass/No Pass.
Any combination of P A 111, 111X, 111Y & 111Z may be taken for a maximum of 96 units.
Eight hours laboratory for two units of credit.
Study, rehearsal, and performance of theatre performance pieces. Designed as a performance course for actors and theatre technicians wishing to explore the vast theatre repertoire more fully and with other performance artists. Repertoire may include works from Greek to contemporary, non-musical and musical theatre, and non-western theatre. Performances both on and off campus. Attendance at all performances required.

P A 121 PERFORMANCE PRACTICES IN VOCAL MUSIC 2 Units
P A 121X 4 Units
P A 121Y 8 Units
P A 121Z 16 Units
Prerequisite: Enrollment subject to audition.
Advisory: Pass/No Pass.
Any combination of P A 121, 121X, 121Y & 121Z may be taken for a maximum of 96 units.
Eight hours laboratory for two units of credit.
Study, rehearsal, and performance of vocal/choral repertoire. Designed as an advanced performance course for ensemble singers wishing to explore the vast choral repertoire more fully with other performance artists. Repertoire includes music from medieval to contemporary, and non-western music. Concert performances both on and off campus. Attendance at all performances required.

P A 131 PERFORMANCE PRACTICES IN INSTRUMENTAL MUSIC 2 Units
P A 131X 4 Units
P A 131Y 8 Units
P A 131Z 16 Units
Prerequisite: Enrollment subject to audition.
Advisory: Pass/No Pass.
Any combination of P A 131, 131X, 131Y & 131Z may be taken for a maximum of 96 units.
Eight hours laboratory for two units of credit.
Study, rehearsal, and performance of instrumental performance pieces for varied ensembles. Designed as a performance course for players of string, wind, and percussion instruments wishing to explore the vast instrumental repertoire more fully with other performance artists, including music from renaissance to contemporary, and non-western music. Concert performances both on and off campus. Attendance at all performances required.

P A 141 PERFORMING ARTS COLLEGIUM 2 Units
P A 141X 4 Units
P A 141Y 8 Units
P A 141Z 16 Units
Prerequisite: Enrollment subject to audition.
Advisory: Pass/No Pass.
Any combination of P A 141, 141X, 141Y & 141Z may be taken for a maximum of 96 units.
Eight hours laboratory for two units of credit.
An advanced laboratory course involving approved student performance, or performance support in music, theatre, or dance, including theatre technicians, and sound and video recording arts. Performances or productions for community musical, theatre or dance events may be planned and executed in this class. Includes required public performances. May be taken six times for credit.
P A 150 PERFORMING ARTS LABORATORY .5 Unit
P A 150X 1 Unit
P A 150Y 2 Units
P A 150Z 3 Units
Prerequisite: Enrollment subject to audition.
Advisory: Pass/No Pass.
Any combination of P A 150, 150X, 150Y & 150Z may be taken a maximum of six times for credit.
One and one-half hours laboratory for each half unit of credit.
Supervised activities in performing arts, related to skills and materials of other performing arts courses in which students are currently enrolled.

P T 56 PRINCIPLES & ANALYSIS OF FLEXIBILITY 4 Units
P T 56X 3 Units
P T 56Y 1 Unit
Three hours lecture, three hours laboratory.
Techniques and principles of stretching and flexibility. Includes anatomy and physiology of flexibility and the practical application of flexibility training in everyday life, fitness, and athletic competition.

PHARMACY TECHNOLOGY
Biological & Health Sciences Division (650) 949-6955 www.foothill.edu/bio/programs/pharmtec/
PHT 50 ORIENTATION TO PHARMACY TECHNOLOGY 3 Units
Prerequisite: Admission to Pharmacy Technology Program.
Three hours lecture.
An orientation to the role and working environment of the pharmacy technician, in both inpatient and outpatient settings. An introduction to the legal responsibilities and technical activities of the pharmacy technician.

PHT 52A INPATIENT DISPENSING 3 Units
Prerequisite: Admission to Pharmacy Technology Program.
Two hours lecture, four hours laboratory.
A general study of the usual technician functions associated with an institutional drug distribution system. Practical experience in the manipulative and record-keeping functions of extemporary preparations in an inpatient pharmacy.

PHT 52B ASEPTIC TECHNIQUE & IV PREPARATION 4 Units
Prerequisite: PHT 52A.
Three hours lecture, five hours laboratory.
The compounding of sterile products according to the appropriate technique. An introduction to the concepts of sterility and incompatibility. The use of applicable quality assurance processes and performance of work in accordance with the laws, regulations, and standards which govern the preparation of sterile products, with special emphasis on the preparation of parenteral chemotherapy with strict adherence to all precautionary standards.

PHT 53 AMBULATORY PHARMACY PRACTICE 4 Units
Prerequisite: Admission to the Pharmacy Technology Program.
Three hours lecture, three hours laboratory, one and one-half hours research.
A review of the skills needed to operate effectively in an ambulatory setting, with emphasis on receiving and controlling inventory, processing prescriptions using computerized prescription processing, and medical insurance billing. Customer relations.

PHT 54A DOSAGE CALCULATIONS A 3 Units
Prerequisite: Admission to Pharmacy Technology Program.
Three hours lecture.
An introduction to the use of pharmaceutical measuring systems with emphasis on the metric system and intersystem conversions.

PHT 54B DOSAGE CALCULATIONS B 3 Units
Prerequisite: PHT 54A.
Three hours lecture.
Calculation of the correct oral and parenteral dosages of drugs using information from prescriptions or medications orders. Accurate determination of the correct amount of ingredients for the compounding of pharmaceutical products from a prescription or medications order.

PERSONAL TRAINER
Athletics & Human Performance Division (650) 949-7222 www.foothill.edu/bio/programs/pft/
P T 51 BASIC NUTRITION FOR SPORTS & FITNESS 3 Units
Three hours lecture.
Practical applications of basic nutrition concepts and how food choices affect health and fitness. Includes computer utilization of personal dietary analysis and evaluation. Standard food guides and guidelines to select foods that would maximize individual health are utilized in this course.

P T 52 STRENGTH FITNESS 3 Units
Two hours lecture, three hours laboratory.
Principles and techniques of strength training including physiology, performance principles, exercise techniques, and program design and management.

P T 53 PERSONAL FITNESS TRAINER INTERNSHIP 3 Units
May be taken three times for credit.
Two hours lecture, three hours laboratory.
Internship program designed to provide personal fitness trainers with the practical hands-on skills and to gain valuable experience with the students at the Lifetime Fitness Center, a campus facility. Includes conducting assessments of fitness, prescribing appropriate physical exercises, and safely instructing students in the step-by-step procedures of how to execute strength, cardiovascular, and flexibility exercises. In addition, the development of business administration and management aspects for personal trainers.

P T 54 TECHNIQUES OF FITNESS ASSESSMENT 3 Units
Two hours lecture, three hours laboratory.
Techniques in conducting exercise assessment tests. Includes calculating and interpreting assessment test results and the design of exercise programs.

P T 55 CONCEPTS OF EXERCISE PHYSIOLOGY FOR FITNESS 4 Units
Four hours lecture.
Basic concepts and principles of exercise science applied to teaching fitness. Emphasis on anatomy, exercise physiology, and biomechanics. Includes major factors related to the human body.
<table>
<thead>
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<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PHT 55A</td>
<td>PHARMACOLOGY A</td>
<td>6</td>
<td>A study of the basic anatomy, physiology, and pharmacology of the nervous system, the senses, the endocrine system, the digestive system, the urinary system, and the reproductive system.</td>
</tr>
<tr>
<td>PHT 55B</td>
<td>PHARMACOLOGY B</td>
<td>6</td>
<td>A study of the basic anatomy, physiology, and pharmacology of body tissues and membranes, the integumentary system, the skeletal system, the muscular system, the cardiovascular system, the blood, the lymphatic system and immunization, the respiratory system. A review of body temperature. A discussion on metabolism with emphasis on nutrition.</td>
</tr>
<tr>
<td>PHT 56A</td>
<td>DISPENSING &amp; COMPOUNDING A</td>
<td>4</td>
<td>General preparation of nonsterile solid and liquid pharmaceutical dosage forms for oral and topical use. Practical experience in the manipulative and record-keeping functions associated with the compounding and dispensing of prescriptions for ambulatory patients. Study of dosage forms, advantages and disadvantages, uses, storage and packaging of pharmaceutical products.</td>
</tr>
<tr>
<td>PHT 56B</td>
<td>DISPENSING &amp; COMPOUNDING B</td>
<td>3</td>
<td>General preparation of topical, transdermal, rectal, ophthalmic, and otic pharmaceutical dosage forms. Practical experience in the manipulative and record keeping functions associated with the compounding and dispensing of prescriptions. Study of dosage forms, advantages and disadvantages, uses, storage and packaging of pharmaceutical products.</td>
</tr>
<tr>
<td>PHT 60A</td>
<td>RETAIL CLINICAL</td>
<td>1.5</td>
<td>The practice in the outpatient environment, of skills developed in didactic and laboratory training. Activities will be performed by the student and evaluated by a preceptor.</td>
</tr>
<tr>
<td>PHT 60B</td>
<td>RETAIL CLINICAL</td>
<td>1.5</td>
<td>The practice in the outpatient environment, of skills developed in didactic and laboratory training. Activities will be performed by the student and evaluated by a preceptor.</td>
</tr>
<tr>
<td>PHT 61</td>
<td>HOME HEALTH CARE SUPPLIES</td>
<td>3</td>
<td>Study of diseases and conditions that require ongoing health maintenance by the patient, and the tests and devices used for the control of these diseases and conditions. Single-use test kits for routine health screening. An evaluation of alternative forms of health care. A study of the vitamins and minerals commonly used in pharmaceutical preparations.</td>
</tr>
<tr>
<td>PHT 62A</td>
<td>HOSPITAL CLINICAL</td>
<td>1.5</td>
<td>The practice, in both inpatient and outpatient environments, of skills developed in didactic and laboratory training. Activities will be performed by the student and evaluated by a preceptor.</td>
</tr>
<tr>
<td>PHT 62B</td>
<td>HOSPITAL CLINICAL</td>
<td>1.5</td>
<td>The practice, in an inpatient environment, of skills developed in didactic and laboratory training of preparation of sterile products. Activities will be performed by the student and evaluated by a preceptor.</td>
</tr>
<tr>
<td>PHT 200L</td>
<td>PHARMACY TECHNICIANS AS A CAREER</td>
<td>1</td>
<td>One and one-half hours lecture-laboratory. Introduction to the pharmaceutical sciences and the functions of a pharmacy technician in health care. Role of the pharmacy technician, areas of specialization in the field, technical standards, state registration requirements and employment opportunities.</td>
</tr>
</tbody>
</table>

**PHILOSOPHY**

Business & Social Sciences Division  
(650) 949-7322  
www.foothill.edu/bss/

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<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>PHIL 1</td>
<td>CRITICAL THINKING</td>
<td>5</td>
<td>Develops understanding of informal logic and practical reasoning skills necessary for academic success, including tools needed to analyze information from a variety of sources such as academic essays, philosophic literature, news media and advertising. Focus on skills of argumentation including, but not limited to, elements of an argument, deductive and inductive forms of argumentation, the evaluation of arguments and the recognition of a variety of fallacies. Skills developed through a series of written assignments of increasing scope and difficulty culminating in a sophisticated argumentative essay. [CAN PHIL 8]</td>
</tr>
<tr>
<td>PHIL 2</td>
<td>INTRODUCTION TO SOCIAL &amp; POLITICAL PHILOSOPHY</td>
<td>4</td>
<td>Social and political philosophies of classical, modern and contemporary thinkers.</td>
</tr>
<tr>
<td>PHIL 4</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>4</td>
<td>Introductory survey of basic principles and concerns of philosophy and of philosophical questions. Examines selected concepts concerned with the meaning and nature of reality, knowledge, morals, religion, aesthetics and issues of social and political concern. [CAN PHIL 2]</td>
</tr>
<tr>
<td>PHIL 7</td>
<td>INTRODUCTION TO SYMBOLIC LOGIC</td>
<td>5</td>
<td>Use of logic as a tool for analyzing arguments. Development of formal proof techniques including quantification theory.</td>
</tr>
<tr>
<td>PHIL 8</td>
<td>ETHICS</td>
<td>5</td>
<td>Standards of right and wrong. Concepts of good, duty, egoism, altruism, freedom, personal and social responsibility. Responsible decision making. Situational ethics. [CAN PHIL 4]</td>
</tr>
<tr>
<td>PHIL 11</td>
<td>INTRODUCTION TO THE PHILOSOPHY OF ART</td>
<td>4</td>
<td>Analysis of central problems and challenges in aesthetics. Art and beauty, possibility of objectivity in criticism, modern and traditional definitions of a work of art. Considers truth and meaning in fine arts and literature, natural beauty and its relationship to excellence in music and architecture.</td>
</tr>
<tr>
<td>PHIL 20A</td>
<td>HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES TO ST. THOMAS</td>
<td>4</td>
<td>Examination of Western philosophy with an emphasis on Greek philosophy from Thales through Aristotle and selected medieval philosophers from Augustine to St. Thomas Aquinas.</td>
</tr>
<tr>
<td>PHIL 20B</td>
<td>HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT</td>
<td>4</td>
<td>Examination of Western philosophy in the early modern period with an emphasis on major philosophers such as Descartes, Hume and Kant.</td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
PHIL 22 INTRODUCTION TO WORLD RELIGIONS: THE SEARCH FOR SPIRITUAL MEANING 4 Units

Four hours lecture.
Examines the ability of religion to satisfy the spiritual needs of its followers. Focus on individual confrontation of dynamic social forces at work globally in the 1990's. Multicultural views as applied to world religions.

PHIL 24 COMPARATIVE WORLD RELIGIONS: EAST 4 Units

Four hours lecture.
Origin, History and significant ideas of the world's major Eastern religions. Primitive religion, Hinduism, Buddhism, Confucianism, Taoism, and Shintoism as seen through the perspective of contemporary American expressions and practice.

PHIL 25 COMPARATIVE WORLD RELIGIONS: WEST 4 Units

Four hours lecture.
Origin, History and significant ideas of the world's major Western religions as seen through the practice and expression of contemporary American diversity. Comparisons of fundamental insights, ideals and contributions towards human moral heritage of primitive religion, Zoroastrianism, Judaism, Christianity, and Islam.

PHIL 34 HONORS INSTITUTE SEMINAR IN PHILOSOPHY 1 Unit

Prerequisite: Membership in the Honors Institute.
A seminar in directed readings, discussions and projects in philosophy. Specific topics to be determined by the instructor.

PHIL 35 DEPARTMENT HONORS PROJECTS IN PHILOSOPHY 1 Unit

May be taken six times for credit.
A seminar in readings, research, critical techniques and practice. Specific topics vary.

PHIL 36 SPECIAL PROJECTS IN PHILOSOPHY 1 Unit

PHIL 36X 2 Units
PHIL 36Y 3 Units
PHIL 36Z 4 Units

Any combination of PHIL 36, 36X, 36Y & 36Z may be taken for a maximum of six units.
One hour lecture for each unit of credit.
Advanced readings research, and/or project in philosophy. Specific topics determined in consultation with instructor.

PHIL 50 INTRODUCTION TO CRITICAL THINKING 4 Units

Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Develops understanding of informal logic and practical reasoning skills necessary for academic success, including tools needed to analyze information from a variety of sources such as academic essays, philosophic literature, news media and advertising. Focus on skills of argumentation including, but not limited to, elements of an argument, deductive and inductive forms of argumentation, the evaluation of arguments and the recognition of a variety of fallacies. Skills developed through a series of written assignments of increasing scope and difficulty culminating in a sophisticated argumentative essay.

PHOT 1 BLACK & WHITE PHOTOGRAPHY I 4 Units

Advisory: Students taking this course to satisfy the transfer General Education requirement in humanities must concurrently enroll in PHOT 1LX.
Two hours lecture, three hours lecture-laboratory, one hour laboratory.
Fundamentals of black and white still photography. Historical development of the medium. The role of photography in contemporary visual expression, including contributions from diverse cultures. Emphasis on photographic seeing, camera operation, use of aperture and shutter settings for aesthetic and sensitometric control, film processing, printing, and use of natural light for personal expression and communication. Introduction to electronic imaging processes. [CAN ART 18]

PHOT 1LX GENERAL PHOTO PRODUCTION LABORATORY 1 Unit

Corequisite: Concurrent enrollment in PHOT 1.
Three hours laboratory.
Supervised use of photographic darkroom equipment and procedures for the beginning photography student. Hours to be arranged.

PHOT 2 BLACK & WHITE PHOTOGRAPHY II 4 Units

Prerequisite: PHOT 1 or equivalent.
May be taken two times for credit.
Two hours lecture, three hours lecture-laboratory, one hour laboratory.
Emphasis on control of available light through use of tripods and push-processing; use of electronic flash and studio lights; attributes of various films and appropriate chemistry for each; graded papers; larger format cameras, introduction to sensitometry; specialized developing and printing techniques, enhancing personal photographic expression; digital manipulation of the photographic image.

PHOT 2LX GENERAL PHOTO PRODUCTION LABORATORY II 1 Unit

Corequisite: PHOT 2.
Three hours laboratory.
Supervised use of photographic darkroom equipment and procedures for the intermediate photography student. Hours to be arranged.

PHOT 5 INTRODUCTION TO PHOTOGRAPHY 4 Units

Two hours lecture, three hours lecture-laboratory, one hour laboratory.
Introduction to film and digital photography including use of light, expressive color and composition. Instruction in basic camera operations and printing options. Survey of photography's historical and contemporary role in our society and examination of contributions by photographers of diverse backgrounds.

PHOT 8 PHOTOGRAPHY OF MULTICULTURAL AMERICA 4 Units

Four hours lecture, one and one-half hours laboratory.
Examination of photography's role in shaping ideas about race, class, gender, sexuality and national identity in America. Critical analysis of images from a wide range of genres including: commercial photography, portraiture, social documentary, photojournalism, ethnographic and scientific photography, erotica, and fine-art photography are discussed within their historical and social context.

PHOT 8H PHOTOGRAPHY OF MULTICULTURAL AMERICA 4 Units

Four hours lecture, one and one-half hours laboratory.
Examination of photography's role in shaping ideas about race, class, gender, sexuality and national identity in America. Critical analysis of images from a wide range of genres including: commercial photography, portraiture, social documentary, photojournalism, ethnographic and scientific photography, erotica, and fine-art photography are discussed within their historical and social context. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

PHOT 10 HISTORY OF PHOTOGRAPHY 4 Units

Advisory: PHOT 1 or equivalent.
Three hours lecture, three hours laboratory.
The History of still photography from the earliest investigations of the camera obscura to late 20th Century electronic imaging. Emphasis on the role of photographs as a social and cultural force and on our artistic heritage of camera work.

PHOT 10H HISTORY OF PHOTOGRAPHY (HONORS) 4 Units

Advisories: PHOT 1 or equivalent.
Three hours lecture, three hours laboratory.
The History of still photography from the earliest investigations of the camera obscura to late 20th Century electronic imaging. Emphasis on the role of photographs as a social and cultural force and on our artistic heritage of camera work. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.
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<tr>
<td>PHOT 11</td>
<td>CONTEMPORARY ISSUES IN PHOTOGRAPHY</td>
<td>4</td>
<td></td>
<td>Three hours lecture, three hours laboratory. Survey of contemporary issues in photography. Critical theory and other issues surrounding contemporary photographic practices are explored through the style and content of work by selected contemporary photographers. Censorship, copyright, appropriation, and other current issues affecting the contemporary photographer are discussed. The interplay of traditional and digital photography and how it affects our concepts of truth, reality, society, and culture.</td>
</tr>
<tr>
<td>PHOT 13</td>
<td>EXPERIMENTAL PHOTOGRAPHY</td>
<td>4</td>
<td>Advisory: PHOT 2</td>
<td>Two hours lecture, three hours lecture-laboratory, one hour laboratory. Exploration of experimental approaches to creative photography, using silver and nonsilver processes. Introduction to digital manipulation of images.</td>
</tr>
<tr>
<td>PHOT 34</td>
<td>HONORS INSTITUTE SEMINAR IN PHOTOGRAPHY</td>
<td>1</td>
<td>Prerequisite: Membership in the Honors Institute</td>
<td>A seminar in directed readings, discussions and projects in photography. Specific topics to be determined by the instructor.</td>
</tr>
<tr>
<td>PHOT 50</td>
<td>BLACK &amp; WHITE PHOTOGRAPHY III</td>
<td>4</td>
<td>Prerequisite: PHOT 2</td>
<td>Two hours lecture, three hours lecture-laboratory, one hour laboratory. Exploration of photographic seeing through the use of advanced processing and printing techniques; introduction to the Zone System and film calibration; creating special effects; high contrast and infrared films; integration of aesthetics and technique, emphasis on development of a personal style.</td>
</tr>
<tr>
<td>PHOT 51</td>
<td>ZONE SYSTEM PHOTOGRAPHY</td>
<td>4</td>
<td>Prerequisite: PHOT 2</td>
<td>Two hours lecture, three hours lecture-laboratory, one hour laboratory. An exploration of the Zone System through use of special processing and fine printing techniques. A study of the integration of aesthetics, film calibration, development of film, printing, and techniques associated with the Zone System. Acquisition of fine printing and archival processing techniques suitable for producing exhibit quality presentations. Application of understanding of Zone System to both digital and color materials. Appreciation of contributions by photographers of diverse backgrounds.</td>
</tr>
<tr>
<td>PHOT 53</td>
<td>INTRODUCTION TO COLOR SLIDES</td>
<td>4</td>
<td>Prerequisite: PHOT 2</td>
<td>Two hours lecture, three hours lecture-laboratory. Introduction to color transparencies, including exposure and development of color slides, types of films; contrast control and color balance; projection of color slides as a series and as multi-image presentations; making color enlargements from transparencies; aesthetic and technical evolution of the color image from autochromes to the present, including digital and computer-altered imagery.</td>
</tr>
<tr>
<td>PHOT 55</td>
<td>SPECIAL PROJECTS IN PHOTOGRAPHY</td>
<td>2</td>
<td>Prerequisite: PHOT 2 or 65B</td>
<td>Two hours lecture, three hours lecture-laboratory. Specific topics in creative, technical or applied photography must be determined in consultation with instructor. A limited area is explored in depth.</td>
</tr>
<tr>
<td>PHOT 57A</td>
<td>PHOTOGRAPHIC PORTFOLIO DEVELOPMENT</td>
<td>4</td>
<td>Prerequisite: PHOT 1, 2, 50 or PHOT 5, 65A, 65B or instructor's permission. Advisory: PHOT 10, 10H or 11.</td>
<td>May be repeated three times for credit. Two hours lecture, three hours lecture-laboratory, one hour laboratory. Organization and assembly of a photographic portfolio from concept to final presentation. Intensive advanced class requiring the student to build a group of photographic works that function both individually and as a group. Concerns will include how to make images that communicate clearly, how to blend technical execution with meaning and how to give and receive feedback to further a photographic project and that of fellow photographers.</td>
</tr>
<tr>
<td>PHOT 57B</td>
<td>PROFESSIONAL PRACTICES IN PHOTOGRAPHY</td>
<td>4</td>
<td>Prerequisite: PHOT 1, 2, 50 or PHOT 5, 65A, 65B and PHOT 57A, or instructor's permission. Advisory: PHOT 10, 10H or 11.</td>
<td>May be repeated three times for credit. Two hours lecture, three hours lecture-laboratory, one hour laboratory. Organization of photographic work from prior classes and projects to meet individual goals including transfer, exhibition and employment. Development of professional materials such as resume, Web site and business cards as well as finalization of a photographic portfolio to meet the qualifications for an A.A. Degree in Photography. Develop support materials for applications and exhibitions. Student must share work with photography community through exhibition or other methods of display.</td>
</tr>
<tr>
<td>PHOT 60</td>
<td>PHOTOGRAPHY &amp; THE NEW TECHNOLOGIES</td>
<td>4</td>
<td>Advisory: PHOT 1 or equivalent experience</td>
<td>Two hours lecture, three hours lecture-laboratory, one hour laboratory. Basic instruction in use of the new photographic technologies of computer-enhanced imagery, digital image-making and digital printing. Overview of the contemporary use of images and computers in commerce, media and fine art expression. Web pages, virtual reality and the latest in digital photo equipment are explored.</td>
</tr>
<tr>
<td>PHOT 63</td>
<td>PHOTOJOURNALISM</td>
<td>4</td>
<td>Prerequisite: PHOT 2</td>
<td>Two hours lecture, three hours lecture-laboratory, one hour laboratory. Instruction in basic skills needed for effective newspaper and magazine photography with emphasis on developing appropriate behavior and craft needed in meeting deadlines for photojournalistic publication. Assignments include news photographs, human interest and feature pictures, and the picture story. Special emphasis on print quality, picture editing, layout design, and image content. Introduction to electronic capture and transmittal of photographs.</td>
</tr>
<tr>
<td>PHOT 65A</td>
<td>DIGITAL PHOTOGRAPHY I</td>
<td>4</td>
<td>Prerequisite: PHOT 1, PHOT 5 or equivalent.</td>
<td>May be taken three times for credit. Two hours lecture, three hours lecture-laboratory, one hour laboratory. Instruction to the tools for expressive communication using Adobe Photoshop including scanning, manipulating, printing and web publishing. Development of skills for a variety of outputs for both fine art and commercial applications. The student will explore the 'digital darkroom' using both tradition photographic materials and digital input. Digital Camera not required.</td>
</tr>
<tr>
<td>PHOT 65B</td>
<td>DIGITAL PHOTOGRAPHY II</td>
<td>4</td>
<td>Prerequisite: PHOT 65A or equivalent experience</td>
<td>May be taken three times for credit. Two hours lecture, three hours lecture-laboratory, one hour laboratory. Continuing instruction in the creative and expressive possibilities of Adobe Photoshop for scanning, manipulating, printing and web publishing. Increasing proficiency in skills for a variety of outputs for both fine art and commercial applications. The student will explore the 'digital darkroom' in depth using both traditional photographic materials and digital input. Digital Camera not required.</td>
</tr>
</tbody>
</table>
PHOT 65C  DIGITAL PHOTOGRAPHY III  4 Units
Prerequisite: PHOT 65B or equivalent.
Two hours lecture, three hours lecture-laboratory, one hour laboratory.
Continuing instruction in the creative and expressive possibilities of Adobe Photoshop
for scanning, manipulating, printing and web publishing. Development of advanced
skills for a variety of outputs for both fine art and commercial applications. The
student will explore the 'digital darkroom' in depth using both traditional photographic
materials and digital input. Digital Camera not required.

PHOT 67  CAREERS IN THE VISUAL ARTS  2 Units
Advisory: Not open to students with credit in ART 71, GID 60, MUS 68, VART 50.
Two hours lecture.
Exploring the field of visual arts including fine arts, design, graphic design,
photography, video arts, new media, and theatre arts. Survey of transfer schools,
art studios, company art departments, advertising agencies and job opportunities
for creative services professionals

PHOT 68  SPECIAL TOPICS IN PHOTOGRAPHY  1 Unit
Advisory: PHOT 1 or 65A.
May be taken six times for credit.
One hour lecture.
Investigation of a specific aspect or topic of photography through discussion and
demonstration by the instructor(s).

PHOT 70  INTRODUCTION TO COLOR PHOTOGRAPHY  4 Units
Prerequisite: PHOT 2.
May be taken three times for credit.
Two hours lecture, three hours lecture-laboratory, one hour laboratory.
Introduction to color transparencies, types of transparency films; contrast control
and color balance; projection of color slides as a series and as multi-image
presentations; making color enlargements from transparencies. Introduction to
printing color negatives, including various controls on exposure, developing and
printing. Theory and principles of three-color photography, including densitometry
as related to evaluation of negatives and selection of proper filtration.

PHOT 71  THE PHOTOGRAPHIC BOOK  4 Units
Prerequisite: PHOT 1, 65A, or equivalent experience.
May be taken three times for credit.
Two hours lecture, three hours lecture-laboratory, one hour laboratory.
Application of the technology of electronic (digital) photography to desktop
publishing. Instruction in digital image processing and use of the electronic
darkroom. Introduction to principles and applications of computer graphic design,
typography and illustration.

PHOT 72  DIGITAL CAMERA TECHNIQUE  4 Units
Prerequisite: PHOT 65A or equivalent experience.
Two hours lecture, three hours lecture-laboratory, one hour laboratory.
Exploration of the digital camera in multiple formats. Understanding the current
tools and develop skill in imagemaking in the digital realm. Unique to the digital
process including workflow, archiving, image resolution as well as basic photographic
concerns such as composition and visual communication will be explored.

PHOT 74  STUDIO PHOTOGRAPHY TECHNIQUES  4 Units
Prerequisite: PHOT 1, PHOT 2.
May be taken three times for credit.
Two hours lecture, three hours lecture-laboratory, one hour laboratory.
Introduction and overview to large format (view camera), digital medium format
cameras, and studio lighting; exploration of photographic practices in a studio
environment; emphasis on developing effective skills and techniques necessary
to begin a career in studio photography.

PHOT 75  INTRODUCTION TO COMPUTER GRAPHICS  4 Units
Advisory: Familiarity with computer operating systems; ART 4A or GRDS 60; ART
5A; PHOT 1 or PHOT 5. Not open to students with credit in ART 56 or GRDS 56.
Six hours lecture-laboratory, three hours laboratory.
Basic instruction using the computer for painting, drawing, image processing, photo
composites and typography. Emphasis on image making and creative problem solving.

PHOT 78  FIELD STUDY IN PHOTOGRAPHY  1 Unit
Advisory: PHOT 1 or 65A.
May be taken six times for credit.
One hour lecture.
Investigation of a specific aspect or topic of photography through discussion and
demonstration by the instructor(s) in the field.

PHOT 83  SERVICE LEARNING PROJECTS  4 Units
Advisory: Completion of entry-level photography courses.
May be taken three times for credit.
Six hours lecture-laboratory, three hours laboratory.
Fulfillment of work-related assignments for on-campus and off-campus not-for-
profit organizations. Faculty coordinator helps the student apply skills learned in
photographic arts courses to community-based projects. Disciplines include graphic
design, photography and studio art.

PHOT 125  PHOTOGRAPHIC LAB MANAGEMENT  3 Units
Advisory: Completion of beginning photography class.
Three hours lecture.
A self-paced class introducing the darkroom lab technician or home darkroom user
to the techniques of proper photographic lab management. Topics include black and
white chemistry, color chemistry, enlarger and camera types, studio equipment and
design, simple repairs, darkroom safety, chemistry handling and documentation.

PHOT 130  PRESENTING, PRESERVING & RESTORING PHOTOGRAPHS  4 Units
Advisory: PHOT 1 or 65A.
May be taken six times for credit.
Two hours lecture, three hours lecture-laboratory, one hour laboratory.
This class will introduce you to skills that are useful to the artist, the family archivist
and the independent photography business operator. Topics will include: Archiving
and protecting family photographs using both traditional and digital technique;
Documenting and storage of personal artwork for preservation and exhibition as
well as preparation of professional slides for application to schools or exhibitions;
Development of skills and techniques useful in a photographic business like framing
and matting using both double matts and multiple matts in a variety of materials.
Creation of artwork using handcoloring and innovative matting and framing techniques.

PHOT 150  PHOTOGRAPHY PRODUCTION LABORATORY  .5 Unit
PHOT 150X  1 Unit
PHOT 150Y  2 Units
PHOT 150Z  3 Units
Corequisite: Concurrent enrollment in a photography course requiring
laboratory access.
May be taken for a maximum of 18 units.
Two hours laboratory for each half unit of credit.
Supervised use of photographic studio and darkroom equipment for projects
assigned in still photography courses, including basic, intermediate, advanced,
color, and special project courses. Hours to be arranged within scheduled availability
of photography department open facilities.

PHOT 180  PHOTOGRAPHIC PRACTICES  .5 Unit
PHOT 180X  1 Unit
PHOT 180Y  2 Units
PHOT 180Z  3 Units
Corequisite: Concurrent enrollment in a photography course requiring
laboratory access or by instructor referral.
May be taken for a maximum of 18 units.
Two hours laboratory for each half unit of credit.
Supervised use of photographic studio and darkroom equipment for projects
assigned in still photography courses, including basic, intermediate, advanced,
color, digital, and special project courses. Hours to be arranged within scheduled availability
of photography department open facilities.

PHOT 190  DIRECTED STUDY  .5 Unit
PHOT 190X  1 Unit
PHOT 190Y  2 Units
PHOT 190Z  3 Units
Prerequisite: PHOT 1 or 5 or equivalent.
Advisory: Pass/No Pass.
May be taken for a maximum of 18 units.
One hour lecture.
Directed study for students who desire or require additional help in attaining
comprehension and competency in learning skills in a photographic area.
PHYSICAL SCIENCES & ENGINEERING

Physical Sciences, Mathematics & Engineering Division  (650) 949-7259
www.foothill.edu/psme/

PSE 111  PASS THE TORCH TEAM LEADER TRAINING  1 Unit
Prerequisite: An earned A or B+ grade with instructor recommendation in one of the following courses: MATH 200, 101, 105, 10, 49, 51, 1A, 1B, 1C, 1D, 2A, 2B. Student must currently be a team leader for a Pass the Torch study team. May be taken three times for credit.
One hour lecture.
Training in team leading skills necessary for assisting a member in the Pass the Torch Program, including study skills, college policies, professionalism, ethics and role modeling of successful student behavior. Techniques of subject specific tutoring skills, with attention given to diverse learning styles. Practice of these skills through sample student works and instructor assignments and, when applicable, content-specific suggestions from the member’s instructor.

PSE 300  PEDAGOGY IN PHYSICAL SCIENCE, MATHEMATICS & ENGINEERING  1 Unit
May be taken six times for credit.
One hour lecture.
Faculty seminar used to discuss the best practices in teaching Physical Science, Mathematics and Engineering courses.

PHYSICS

Physical Sciences, Mathematics & Engineering Division  (650) 949-7259
www.foothill.edu/psme/

PHYS 2A  GENERAL PHYSICS  5 Units
Prerequisite: MATH 51 and 105.
Four hours lecture, one hour lecture-laboratory, two hours laboratory.
Lectures, demonstrations, and problems in mechanics; properties of matter. [CAN PHYS 2 = PHYS 2A+2B, CAN PHYS SEQ A = PHYS 2A+2B+2C]

PHYS 2B  GENERAL PHYSICS  5 Units
Prerequisite: PHYS 2A.
Four hours lecture, one hour lecture-laboratory, two hours laboratory.

PHYS 2C  GENERAL PHYSICS  5 Units
Prerequisite: PHYS 2B.
Four hours lecture, one hour lecture-laboratory, two hours laboratory.
Lectures, demonstrations, and problems in waves; optics; introductory quantum mechanics; atomic physics; and nuclear physics. [CAN PHYS 4 = PHYS 2B+2C, CAN PHYS SEQ A = PHYS 2A+2B+2C]

PHYS 36  SPECIAL PROJECTS IN PHYSICS  1 Unit
Advisory: Previous experience in physics recommended. Any combination of PHYS 36, 36X & 36Y may be taken for a maximum of six units.
Three hours laboratory for each unit of credit.
Advanced readings and projects in physics. Specific projects determined on an individual basis.
Individual study and/or guidance provided for students who desire or require additional assistance in any of the Physics courses.

PHYS 100  PHYSICS STUDENT ASSISTANCE  .5 Unit
Advisories: Pass/No Pass.
Corequisites: Concurrent enrollment in any physics course. Any combination of PHYS 100, 100X & 100Y may be taken a maximum of six times for credit.

PHYS 190  DIRECTED STUDY  .5 Unit
Advisory: Pass/No Pass.
Any combination of PHYS 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

PHYS 190Y  1 Unit
PHYS 190X  1.5 Units
PHYS 190Z  2 Units
POLITICAL SCIENCE

Business & Social Sciences Division
(650) 949-7322
www.foothill.edu/bss/

POLI 1 POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS 5 Units
Advisory: Eligibility for ENGL 1A.
Five hours lecture.
Contemporary analysis of the structure and function of the American Government. Its Constitutional and political systems at the Federal, State and local levels.
[CAN GOVT 2]

POLI 2 COMPARATIVE GOVERNMENT & POLITICS 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Introductory analysis of comparative governmental systems and politics emphasizing a variety of political forms, theory of political differentiation and development, and patterns, processes and regularities among political systems in developing and developed world.

POLI 2H HONORS COMPARATIVE GOVERNMENT & POLITICS 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Introductory analysis of comparative governmental systems and politics emphasizing a variety of political forms, theory of political differentiation and development, and patterns, processes and regularities among political systems in developing and developed world. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

POLI 3 INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY 5 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Five hours lecture.
Introduction to political philosophy/political theory. Central focus is on the History of political thought, the development of political ideologies and forms of the state. Concepts of the state of nature, human nature, natural rights, civil and political society are explored as integral parts of the range of political philosophies addressed.

POLI 3H HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY 5 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Five hours lecture.
Analysis of the History of political thought, the development of various forms of political ideologies and their manifestation in forms of the state. Philosophical formulations of concepts of state of nature, law, rights, civil and political society explored as integral parts of political philosophies of Plato and Aristotle, Augustine and Aquinas, Machiavelli and Hobbes, Locke and Rousseau, Bentham and Mill, Hegel, Marx and Gramsci. As an Honors Course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

POLI 5 RUSSIAN & EAST EUROPEAN POLITICS 4 Units
Four hours lecture.
Historical and contemporary analysis of Russian and East European (Hungarian, Polish and Czecho-Slovak) political institutions and political cultures. Focus on transiotos, an examination of the factors related to each country's contemporary political transition.

POLI 7 AMERICAN GOVERNMENT & POLITICS FROM A BLACK PERSPECTIVE 5 Units
Five hours lecture.
Analysis of the relationship between Black American citizens and the American political system at the national, state and local levels. Emphasis on the American political system, its political institutions, the principles and processes that give rise to them, and their impact on Blacks as a racial ethnic minority in the context of American political democracy.

POLI 8 POST WORLD WAR II GERMANY 4 Units
Prerequisites: Eligibility for ENGL 1A, ESL 26 or equivalent.
Advisory: Not open to students with credit in GERN 8.
Four hours lecture.
Exploration of historical, political and cultural developments in Germany 1945 to the present. Perspectives on the construction of a German national identity/identities and historical memory through literature and film. Interdisciplinary approach to analyze the existence of the two German states and the development of German unification.

POLI 9 POLITICAL ECONOMY 4 Units
Advisory: Not open to students with credit in ECON 9.
Four hours lecture.
Overview of political economy emphasizing the interplay between economics and politics in the formulation of public policy. Policy issues of current significance emphasized.

POLI 9H HONORS POLITICAL ECONOMY 4 Units
Advisory: Not open to students with credit in ECON 9 or POLI 9; Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Overview of political economy emphasizing the interplay between Economics and politics in the formulation of public policy. Policy issues of current significance emphasized. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on extensive writing, reading, and research assignments, student lectures, group discussions and interactions. Distinguishing features include: heightened focus on and evaluation of global objectives and components of developed and developing nations, increased depth of analysis and breadth of examination, higher level of student critical thinking. Expanded learning outcomes and fuller description of these focused elements.

POLI 10 INTERNATIONAL RELATIONS/ WORLD POLITICS 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Analysis of the basic elements of international relations, including the factors of sovereignty, nationalism, and national policies. The international struggle for hegemony and the impact of terrorism on world politics is systematically examined in the context of an increasingly unipolar world.

POLI 15H HONORS INTERNATIONAL RELATIONS/ WORLD POLITICS 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Four hours lecture.
Analysis of the theoretical formulations of international relations including factors of sovereignty and nationalism. Systematic evaluation of the competing perspectives of the international political economy, international relations theory, and the struggle for global hegemony in world politics within a unipolar world. As an Honors Course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

POLI 24 20TH CENTURY AMERICAN FOREIGN POLICY 4 Units
Advisory: Not open to students with credit in HIST 24.
Four hours lecture.
Analysis of American foreign policy from 1898 to the present, emphasizing the relationship between policy-making, American national interest, and the American people.

POLI 34 HONORS INSTITUTE SEMINAR IN POLITICAL SCIENCE 1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in political science. Specific topics to be determined by the instructor.

POLI 35 DEPARTMENT HONORS PROJECTS IN POLITICAL SCIENCE 1 Unit
May be taken six times for credit.
One hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

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Foothill College 2007–2008  www.foothill.edu
PSYCHOLOGY

Business & Social Sciences Division
(650) 949-7322
www.foothill.edu/bss/

PSYC 1 GENERAL PSYCHOLOGY 5 Units
Five hours lecture.
Exploration of primary areas, problems and concepts of psychology. Factors influencing human behavior and experience. Methodology, physiological basis, learning cognitive processes, perception, motivation and emotion, personality, pathology, treatment, and social processes. Area overview and emphasis on experimental, personality, developmental and humanistic psychology. [CAN PSY 2]

PSYC 4 INTRODUCTION TO PSYCOBIOLOGY 4 Units
Four hours lecture.
Central and peripheral nervous system processes underlying the behavior of humans and animals. Examines anatomical and physiological components of behavior and consciousness, basic methods of biopsychology, and neural mechanism and sensory processes associated with learning, perception, motivation, emotion and speech.

PSYC 10 INTRODUCTION TO SOCIAL RESEARCH 4 Units
Advisory: Not open to students with credit in SOC 10.
Four hours lecture.
Introduction to the most common types of research on human behavior: experimentation, survey research, and field research. Examination of the logic of each technique, applications of techniques using actual research studies; limitations of studying human behavior.

PSYC 14 CHILDHOOD & ADOLESCENCE 4 Units
Four hours lecture.
Intellectual, social, and personality development during childhood and adolescence.

PSYC 21 PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES 4 Units
Advisory: Not open to students with credit in SOC 21 or WMN 21.
Four hours lecture.
Survey of gender issues based upon psychological and sociological theories and research. Examination of sex role stereotyping and differences. Developmental considerations.

PSYC 22 PSYCHOLOGY OF PREJUDICE 4 Units
Four hours lecture.
Psychological aspects of group interaction. The complex psychological patterns that develop among different majority and non-majority ethnic and racial groups resulting from the effects of overt and covert discrimination.

PSYC 25 INTRODUCTION TO ABNORMAL PSYCHOLOGY 4 Units
Four hours lecture.
Principles of general psychology applied to the field of psychopathology. Survey of neurotic and psychotic behavior disorders and their major causes and treatment.

PSYC 30 SOCIAL PSYCHOLOGY 4 Units
Advisory: Not open to students with credit in SOC 30.
Four hours lecture.
Survey of sociological and psychological theories and research studies examining the influence of society and social groups on the individual and the influence of the individual on society and social groups. Examination of overlapping and differing contents, level of analysis and methodologies. Focus on human interaction and the shaping of diverse and commonly-shared attitudes, beliefs and world views by society, culture and social groups. Assessment of classic and current social psychological studies.

PSYC 33 INTRODUCTION TO THE CONCEPTS OF PERSONALITY 4 Units
Four hours lecture.
Introduction to the determinants of personality and the dynamics of personality as manifested in personal and social behavior.

PSYC 34 HONORS INSTITUTE SEMINAR IN PSYCHOLOGY 1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in psychology. Specific topics to be determined by the instructor.

PSYC 35 DEPARTMENT HONORS PROJECTS IN PSYCHOLOGY 1 Unit
May be taken six times for credit.
One hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

PSYC 36 SPECIAL PROJECTS IN PSYCHOLOGY 1 Unit
PSYC 36X 2 Units
PSYC 36Y 3 Units
PSYC 36Z 4 Units
Any combination of PSYC 36, 36X, 36Y & 36Z may be taken for a maximum of six units.
One hour lecture for each unit of credit.
Advanced readings, research and/or project in psychology. Specific topics determined in consultation with instructor.

PSYC 40 HUMAN DEVELOPMENT 4 Units
Four hours lecture.
Intellectual, social and personality development through the life span.

PSYC 49 HUMAN SEXUALITY 4 Units
Four hours lecture.
Current factual analysis of and information on sexual functioning and sexuality. Basic questions regarding sexual behavior, sexual roles, anatomy and physiology of sexual response, social patterns of sexual behavior, sexual adjustment and maladjustment. Includes treatment of sexual dysfunction, sex variance, the reproductive span of contraception-pregnancy-birth, sexual disease. Legal, political and cultural aspects of sexual behavior.

PSYC 55 PSYCHOLOGY OF SPORTS 4 Units
Four hours lecture.
Basis and catalyst for peak sports performance. Body/mind relationship, particularly the area of peak performance in sports. Focus on relaxation, visualization, hypnosis, neuropsychology, physiology, left vs. right brain hemisphere specialization, concentration techniques, motivation, emotion and attitude improvement.

RADIATION THERAPY TECHNOLOGY

Biological & Health Sciences Division
(650) 949-7538
www.foothill.edu/bio/programs/radther/

RTT 57 ORIENTATION TO RADIATION THERAPY TECHNOLOGY 2.5 Units
Prerequisite: Admission to Radiation Therapy Technology Program.
Two hours lecture, three hours clinic.
Orientation to Radiation Therapy Technology with an introduction to clinical participation.

RTT 58A FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY 3 Units
FOR RADIATION THERAPISTS
Prerequisite: RTT 57.
Three hours lecture.
Study of basic production and recording of radiographic images for patient simulation, treatment planning and treatment verification in radiation oncology. Nursing procedures and techniques used in patient care with emphasis on anatomy and pathology related to the chest will be covered. Medical ethics and patient rights.

RTT 58B FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY 3 Units
FOR RADIATION THERAPISTS
Prerequisite: Admission to Radiation Therapy Technology Program.
Three hours lecture.
Continuation of RTT 58A; Study of advanced imaging for patient simulation, treatment planning and treatment verification in radiation oncology. Nursing procedures and techniques used in patient care with emphasis on anatomy and pathology related to the G.I. and urinary systems. Medical emergencies, pharmacology and radiographic contrast agents.

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RTT 59A  TECHNICAL RADIATION ONCOLOGY  3 Units
Prerequisite: Admission to Radiation Therapy Technology Program.
Three hours lecture.
Introduction to all technical aspects of radiation oncology including History, safety, therapist duties, terminology, treatment planning, equipment, treatment methods, simulations, and dose calculations.

RTT 59B  RADIATION ONCOLOGY & PATHOLOGY  3 Units
Prerequisite: RTT 59A.
Three hours lecture.
Introduction to clinical radiation oncology including therapist duties, terminology, treatment planning, treatment methods, and treatment reactions. General pathology, oncologic pathology and principles of clinical oncology.

RTT 60  PATIENT CARE IN RADIATION ONCOLOGY  2 Units
Prerequisite: RTT 71C.
Two hours lecture.
Patient care, nursing procedures and recordkeeping pertinent to patients undergoing radiation therapy. Includes psychological aspects of oncology, medical-legal concepts and quality assurance.

RTT 61A  RADIATION THERAPY PHYSICS I  3 Units
Prerequisite: RTT 59B.
Three hours lecture.
Fundamentals of external beam radiation therapy physics, principles of radiation detection and measurement, dosimetry concepts, and measurement and calculation of radiation dose.

RTT 61B  RADIATION THERAPY PHYSICS II  3 Units
Prerequisite: RTT 61A.
Three hours lecture.
Fundamentals of nuclear physics and radioactive decay, brachytherapy, radiation protection, and health physics.

RTT 62B  RADIATION BIOLOGY  3 Units
Prerequisite: RTT 61B.
Three hours lecture.
Effects of radiation at the molecular, cellular, tissue, system, and whole body levels. Modification of radiation response; late effects of radiation; clinical radiobiology with emphasis on radiation therapy.

RTT 63C  RADIATION ONCOLOGY III  3 Units
Prerequisite: RTT 64C.
Three hours lecture.
Consolidation of all aspects of radiation therapy technology in preparation for program completion.

RTT 64A  CLINICAL RADIATION ONCOLOGY I  4 Units
Prerequisite: RTT 60.
Four hours lecture.
Principles of clinical oncology and treatment with concentration on breast, male reproductive and genitourinary sites. Anatomical review, treatment reactions and management, lymphatic drainage, simulation and treatment. Discussion of oncologic emergencies.

RTT 64B  CLINICAL RADIATION ONCOLOGY II  4 Units
Prerequisite: RTT 64A.
Four hours lecture.
Principles of clinical oncology and treatment with concentration on gynecological and digestive tumors, lymphoreticular system, and Leukemia. Anatomical review, treatment reactions and management, lymphatic drainage, simulation and treatment.

RTT 64C  CLINICAL RADIATION ONCOLOGY III  4 Units
Prerequisite: RTT 64B.
Four hours lecture.

RTT 71A  CLINICAL PRACTICUM  4.5 Units
Prerequisite: Admission to the Radiation Therapy Technology Program.
Twenty-four hours laboratory, two hours case study research.
Radiation therapy department observation and participation including experience in film processing, assisting with treatment procedures, identifying equipment motions, and awareness of radiation safety and patient safety considerations.

RTT 71B  CLINICAL PRACTICUM  4.5 Units
Prerequisite: RTT 71A.
Twenty-four hours laboratory, two hours case study research.
Radiation therapy department rotation including experience in simulation and/or treatment procedures with progressive skill development. Includes on-campus lab practicum.

RTT 71C  CLINICAL PRACTICUM  4.5 Units
Prerequisite: RTT 71B.
Twenty-four hours laboratory, two hours case study research.
Radiation therapy department rotation, including experience in simulation and/or treatment procedures with progressive skill development. Includes on-campus lab practicum.

RTT 71D  CLINICAL PRACTICUM  4 Units
Prerequisite: RTT 71C.
Twenty-one hours clinic, two hours case study research.
Participation in clinical practicum rotation, including introduction to simulation and treatment planning. Concepts of team practice, patient-centered clinical practice an professional development shall be discussed, examined an evaluated.

RTT 72A  DOSIMETRY I  3 Units
Prerequisite: RTT 59B.
Three hours lecture.
Basic concepts of clinical dosimetry, including terminology, use of tables and graphs and dose calculations.

RTT 72B  DOSIMETRY II  3 Units
Prerequisite: RTT 72A.
Three hours lecture.
Advanced clinical dosimetry concepts, including terminology, use of tables and graphs, dose calculations and construction of manual and computer-generated treatment plans.

RTT 73A  CLINICAL PRACTICUM  7 Units
Prerequisite: RTT 71C.
Thirty-two hours clinic, two hours case study research.
Participation in clinical practicum rotation, including introduction to simulation and treatment planning. Concepts of team practice, patient-centered clinical practice an professional development shall be discussed, examined an evaluated.

RTT 73B  CLINICAL PRACTICUM  7 Units
Prerequisite: RTT 73A.
32 hours clinic, two hours case study research.
Participation in clinical practicum rotation, including introduction to simulation and treatment planning. Concepts of team practice, patient-centered clinical practice and professional development shall be discussed, examined an evaluated.

RTT 73C  CLINICAL PRACTICUM  7 Units
Prerequisite: RTT 73B.
Thirty-two hours clinic, two hours case study research.
Participation in clinical practicum rotation, including introduction to simulation and treatment planning. Concepts of team practice, patient-centered clinical practice an professional development shall be discussed, examined an evaluated.

RTT 73D  CLINICAL PRACTICUM  3.5 Units
Prerequisite: RTT 73C.
Sixteen hours clinic, one hour case study research.
Advanced clinical participation; students assist in treatment planning, simulation, and concentration on completing procedures under supervision but without assistance, using independent judgment.
RTT 80  ADDITIONAL CLINICAL PRACTICUM .5 Unit
RTT 80X 1 Unit
RTT 80Y 1.5 Units
Prerequisite: RTT 71A or subsequent Clinical Practicum.
May be taken six times for credit.
Four hours laboratory for each half unit of credit.
Additional clinical practicum. Offers additional period of clinical experience for
students needing further clinical time to develop requisite skills.

RTT 190  DIRECTED STUDY .5 Unit
RTT 190X 1 Unit
RTT 190Y 1.5 Units
RTT 190Z 2 Units
Advisory: Pass/No Pass.
Any combination of RTT 190, 190X, 190Y & 190Z may be taken a maximum
of six times for credit.
One-half/hour lecture, one and one-half hours laboratory for each half unit of credit.
For students who desire or require additional help in attaining comprehension
and competency in learning skills.

RTT 200L  INTRODUCTION TO RADIATION THERAPY 1 Unit
Two hours lecture-laboratory.
An introduction to Radiation Therapy as a career. Duties and responsibilities of a
radiation therapist student and requirements for admission to the program. Radiation
Therapy specific medical terminology, safety, equipment, personnel and procedures.

RADIO
Fine Arts & Communication Division (650) 949-7555
www.kfjc.org/ & www.foothill.edu/fa/

RAD 70  SPECIAL PROJECTS IN RADIO 1 Unit
RAD 70X  2 Units
RAD 70Y  3 Units
RAD 70Z  4 Units
Any combination of RAD 70, 70X, 70Y & 70Z may be taken a maximum
of 48 units.
Three hours of laboratory for each unit of credit.
Individual projects in creative, technical or applied work in radio at KFJC or in
commercial broadcasting and related industries. Enrollment is available in the
Fine Arts & Communications Division office.

RAD 80  FUNDAMENTALS OF RADIO PRODUCTION & STATION OPERATION 3 Units
Two hours lecture, three and one-half hours laboratory.
Fundamentals of radio directing and production, and the related fields of news, public
affairs, sales, promotions, and management. Practical equipment use, basic studio
operations and FCC regulations; entry-level terminology and industry standards.

RAD 81  HISTORY OF RADIO 1920-PRESENT 4 Units
Four hours lecture.
A comprehensive study of the radio broadcasting industry, its origin, development,
operation, regulation, and influences.

RAD 90A  NEWS & INFORMATION PRODUCTION 3 Units
Advisory: Concurrent enrollment in RAD 80.
One hour lecture, six hours laboratory.
Elementary scripting, voicing, and recording of informational programming. Introduction
to news, public affairs, sports, and public service announcement production and
department operations at the Foothill College FM station.

RAD 90B  NEWS & INFORMATION PRODUCTION 3 Units
Prerequisite: RAD 90A.
One hour lecture, six hours laboratory.
Intermediate scripting, voicing, and recording of informational programming,
Advancement in news, public affairs, sports, public service announcement production
and department operations at the Foothill College FM station.

RAD 90C, D  NEWS & INFORMATION PRODUCTION 3 Units
Prerequisite: RAD 90A.
One hour lecture, six hours laboratory.
Advanced scripting, voicing, and recording of informational programming,
Advancement in news, public affairs, sports, and public service announcement
production and department operations at the Foothill College FM station.

RAD 91A  RADIO STATION SALES & MARKETING 3 Units
Advisory: RAD 90A.
One hour lecture, six hours laboratory.
Fundamentals of radio sales training, marketing, promotions and publicity, and
departmental operations at the Foothill College FM station.

RAD 91B  RADIO STATION SALES & MARKETING 3 Units
Advisory: RAD 90.
One hour lecture, six hours laboratory.
Intermediate radio sales training, marketing, publicity and promotions, and
departmental operations at the Foothill College FM station.

RAD 91C, D  RADIO STATION SALES & MARKETING 3 Units
Advisory: RAD 90A.
One hour lecture, six hours laboratory.
Advanced radio sales training, marketing, promotions and publicity, and
departmental operations at the Foothill College FM station.

RAD 92A  RADIO PROGRAMMING & PRODUCTION 3 Units
Advisory: RAD 90A.
One hour lecture, six hours laboratory.
Basic production studio and master control room operation. Practical experience
in planning, announcing, and engineering of live on-air shifts and pre-recorded
announcements and programs.

RAD 92B  RADIO PROGRAMMING & PRODUCTION 3 Units
Advisory: RAD 90A.
One hour lecture, six hours laboratory.
Intermediate production studio and control room operation. Practical experience
in the planning, announcing, and engineering of live on-air shifts and pre-recorded
announcements and programs and departmental operations at the Foothill College
FM station.

RAD 92C, D  RADIO PROGRAMMING & PRODUCTION 3 Units
Advisory: RAD 90A.
One hour lecture, six hours laboratory.
Advanced production studio and control room operation. Practical experience
in the planning, announcing, and engineering of live on-air shifts and pre-recorded
announcements and programs, and departmental operations in the Foothill
College FM station.

RAD 93A–D  MUSIC INDUSTRY RELATIONS & ENGINEERING 3 Units
Advisory: RAD 90A.
One hour lecture, six hours laboratory.
Beginning music industry relations and engineering. Solicitation of product service,
reporting to industry trade journals, producing live music performance broadcast mixes and
mobile DJ appearances, and departmental operations at the Foothill College FM station.

RAD 95  DIRECTED STUDY .5 Unit
RAD 95X 1 Unit
RAD 95Y 1.5 Units
RAD 95Z 2 Units
Advisory: Pass/No Pass.
Any combination of RAD 90, 90X, 90Y & 90Z may be taken a maximum
of 24 units.
One-half/hour lecture, one and one-half hours laboratory for each half unit of credit.
For students who desire or require additional help in attaining comprehension
and competency in learning skills.
RADIOLOGIC TECHNOLOGY

Biological & Health Sciences Division  (650) 949-7538
www.foothill.edu/bio/programs/radtech/

R T 50  ORIENTATION TO RADIATION SCIENCE TECHNOLOGIES  2 Units
Prerequisite: BIOL 40A, 40B and 40C or equivalency. Admission to Radiologic Technology Program.
Two hours lecture.
Overview of Radiologic Technology as a career. Radiographic terminology, positioning for abdomen, vital sign assessment, introduction to x-ray protection and production, radiographic image formation, patient care, basic computer operation and Internet application. Overview of program structure and student services.

R T 51A  FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: Admission to Radiologic Technology Program. Three hours lecture.
Medical and Radiographic terms. Basic positioning and anatomy related to chest, abdomen, upper extremities, lower extremities, pelvis and hips.

R T 51B  FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: R T 51A. Three hours lecture.
Continuation of R T 51A; radiographic anatomy, positioning and procedures related to the gastrointestinal tract, urinary system and biliary system.

R T 51C  FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: R T 51B. Three hours lecture.
Continuation of R T 51B; radiographic anatomy, positioning and terminology, related to the skull, vertebral column, bony thorax, myelography and arthrography.

R T 52A  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: Admission to Radiologic Technology program. Three hours lecture.
Elementary principles of X-ray physics, technique and radiation protection.

R T 52B  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: R T 52A. Three hours lecture.
Continuation of R T 52A, including physics, technique, processing and protection.

R T 52C  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: R T 52B. Three hours lecture.
Continuation of R T 52B. Expansion of principles of X-ray physics, technique and protection.

R T 52D  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  2 Units
Prerequisite: R T 52C. Two hours lecture.

R T 53  ORIENTATION TO RADIOLOGIC TECHNOLOGY  1 Unit
Prerequisite: Admission to Radiologic Technology Program. Four hours laboratory.
Orientation to radiation sciences, with emphasis on clinical participation.

R T 53A  APPLIED RADIOGRAPHIC TECHNOLOGY  1.5 Units
Prerequisite: Admission to Radiologic Technology Program. Eight hours laboratory, two hours case study research.
Applied radiography; includes clinical observation and application of film analyses, basic positioning, patient care, equipment, manipulation and radiation protection.

R T 53B  APPLIED RADIOGRAPHIC TECHNOLOGY  3 Units
Prerequisite: R T 53A. Sixteen hours laboratory, two hours case study research.
Continuation of applied radiography with emphasis on clinical skill development for positioning, processing, principles of exposure, film analysis, and radiographic experiments.

R T 53C  APPLIED RADIOGRAPHIC TECHNOLOGY  3 Units
Prerequisite: R T 53B. Sixteen hours laboratory, two hours case study research.
Continuation of clinical skill development in positioning, technique selection, protection, clinical observation, and practicum.

R T 53CL  APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY  1 Unit
Prerequisite: R T 53B. Three hours laboratory.
Continuation of structured laboratory activities in applied radiography with emphasis on clinical skill development for positioning, processing, principles of exposure, film analysis, and radiographic experiments.

R T 53D  RADIOGRAPHIC CLINICAL PRACTICUM  8 Units
Prerequisite: Completion of R T 51C, 52C and 53C.
Twenty-seven hours laboratory, two hours case study research.
Radiographic positioning, anatomy, pathology, terminology and nursing procedures. Includes pediatric radiography and non-routine gastrointestinal tract, biliary tract examinations. Clinical experience and film analysis.

R T 54A  BASIC PATIENT CARE FOR IMAGING TECHNOLOGY  2 Units
Formerly: R T 50B
Prerequisite: R T 50A.
Two hours lecture.
Basic concepts of patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures and techniques as well as infection control protocols.

R T 54B  LAW & ETHICS IN MEDICAL IMAGING  2 Units
Formerly: R T 50A
Prerequisite: R T 54A.
Two hours lecture.
A fundamental background in ethics. The historical and philosophical basis of ethics, as well as the elements of ethical behavior in regards to clinical practice. Misconduct, malpractice, legal and professional standards and the ASRT scope of practice.

R T 54C  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  3 Units
Formerly: R T 51D
Prerequisite: R T 54B.
Three hours lecture.
Radiographic Pathology of the respiratory, osseous, urinary, gastrointestinal, central nervous, and hemopoietic system.

R T 61B  RADIOLOGY RESEARCH PROJECT  1 Unit
Prerequisite: R T 62A and 63A.
One hour lecture, two hours case study research.
Research project on a highly specialized area of radiography or other imaging modality. Individual display/research paper required. Specific topics to be determined by the instructor.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008  www.foothill.edu
R T 62A  RADIOPHASIC POSITIONING  3 Units
Prerequisite: R T 52D and 53D.
Three hours lecture.
Specialized radiographic procedures related to Magnetic Resonance Imaging and Computed Tomography. Computer applications related to image capture, display, storage, and distribution. Sectional anatomy of the head, neck, thorax, abdomen, pelvis, vertebral column, and extremities.

R T 62B  SPECIAL PROCEDURES & EQUIPMENT  3 Units
Prerequisite: R T 62A and 63A.
Three hours lecture.
Continuation of R T 62A with emphasis on radiography of the skull, facial bones, mandible, and sinuses. Advanced radiographic procedures with emphasis on angiographic, cerebral, heart, and interventional procedures, angiographic equipment, radiographic anatomy and pathology.

R T 62C  ADVANCED RADIOPHASIC POSITIONING  3 Units
Prerequisite: R T 62B and 63B.
Three hours lecture.
Continuation of RT 62B with emphasis in professional development, continuing education, quality control and quality assurance, non-routine positioning of the osseous system, sonography, cardiopulmonary resuscitation, and pediatric radiology.

R T 62D  APPLIED RADIOPHASIC TECHNOLOGY  1 Unit
Prerequisite: R T 62C.
Six hours clinical laboratory.
Clinical experience in advanced positioning of the skull, facial bones, mastoids and sinuses with emphasis on computed tomography.

R T 63  ADVANCED RADIOPHASIC PRINCIPLES  3 Units
Prerequisite: R T 62B
Three hours lecture.
Special emphasis on advanced radiographic physics, technique, protection and positioning for registry examination preparation. Continued clinical experience and film analysis.

R T 63A  RADIOPHASIC CLINICAL PRACTICUM  7.5 Units
Prerequisite: R T 52D and 53D.
Thirty-two hours laboratory, two hours case study research. Special radiographic positioning with emphasis on radiography of skull, facial bones, mandible, sinuses, mastoids. Special radiographic procedures related to the cranium. Pathology related to the cranium. Related clinical experience.

R T 63B  RADIOPHASIC CLINICAL PRACTICUM  7.5 Units
Prerequisite: R T 62A and 63A.
Thirty-one hours laboratory, two hours case study research. Special radiographic equipment, imaging modalities, and special radiographic procedures. Radiographic anatomy and pathology. Related clinical experience.

R T 63C  RADIOPHASIC CLINICAL PRACTICUM  7.5 Units
Prerequisite: R T 62B and 63B.
Thirty-two hours laboratory. Continuation of R T 62B with emphasis on pediatric skull radiography, facial bone radiography, non-routine positioning of the osseous system, pathology and nursing procedures. Advanced clinical experience.

R T 63D  RADIOPHASIC CLINICAL PRACTICUM  7.5 Units
Prerequisite: R T 62C and 63C.
Thirty-two hours laboratory. Special emphasis on advanced radiographic physics, technique, protection and positioning for registry examination preparation. Continued clinical experience and film analysis.

R T 64  FLUOROSCOPY  3 Units
Prerequisite: R T 52D or current certification in Radiologic Technology or Radiation Therapy Technology.
May be taken three times for credit.
Two and one-half hours lecture, one and one-half hours laboratory. The fluoroscopy course includes the principles of radiation protection and fluoroscopic equipment, application of special equipment, illumination and photometry, anatomy and physiology of the eye and relationship of internal organs.

R T 65  MAMMOGRAPHY  3 Units
Prerequisite: R T 63 or current certification in Radiologic Technology.
May be taken three times for credit.
Two and one-half lecture, one and one-half laboratory. Technical and procedural aspects of mammography including radiation protection and quality assurance aspects, breast anatomy, pathology, positioning and mass localization. Successful completion of this course entitles the student to a Certificate of Completion of a 40 hour course in mammography education.

R T 66  COMPUTED TOMOGRAPHY REVIEW  2 Units
Prerequisite: Must be a registered Radiologic Technologist or senior student in the Radiologic Technology Program.
May be taken three times for credit.
Two hours lecture.
Includes the historical perspectives, image processing concepts, instrumentation, image quality, sectional anatomy, and radiation dose as related to computed tomography. Designed to prepare students for the ARRT Examination in Computed Tomography.

R T 67  ADVANCED TOPICS IN MAMMOGRAPHY  2 Units
Prerequisite: Must be a registered Radiologic Technologist or senior student in the Radiologic Technology Program.
May be taken three times for credit.
Two hours lecture.
Designed to meet the continuing education requirements for radiologic technologist, especially mammographers. Course covers topics related to the subject of breast health, breast imaging techniques, current research, and state and national regulations.

R T 68  MAGNETIC RESONANCE IMAGING REVIEW  2 Units
Prerequisite: One year post ARRT and CRT; a minimum of five hours of continuing education in the area of special procedures; successful completion of DMS 51A and current CPR certification.
Eighty hours clinical laboratory.
Designed as a practicum in a special procedures department. Practical experience is implemented to expose the student to the principles of angiography with emphasis on mastery of the knowledge, insight, and skills required to perform angiographic procedures.

R T 70A  ADVANCED CLINICAL EXPERIENCE: SPECIAL PROCEDURES  8 Units
Prerequisite: R T 70A.
Forty hours clinical laboratory.
Continuation of R T 70A, with emphasis on special radiographic equipment, imaging modalities, and special radiographic procedures.

R T 70B  ADVANCED CLINICAL EXPERIENCE: SPECIAL PROCEDURES  8 Units
Prerequisite: R T 70A.
Forty hours clinical laboratory.
Continuation of R T 70A, with emphasis on special radiographic equipment, imaging modalities, and special radiographic procedures.

R T 71  ADVANCED CLINICAL EXPERIENCE: MAGNETIC RESONANCE IMAGING  8 Units
Prerequisite: ARRT and CRT Certification, successful completion of Foothill sectional anatomy course, current CPR certification.
Forty hours laboratory.
Designed as a practicum in a magnetic resonance department. Practical experience is implemented to expose the student to the principles of MRI with emphasis on mastery of the knowledge, insight, and skills required to perform MRI procedures.

R T 72  VENIPUNCTURE  2 Units
Prerequisites: R T 51C or current Certification in Radiologic Technology. Current Health Care Provider CPR card.
One and one-half lecture, one and one-half laboratory.
R T 73 ADVANCED CLINICAL EXPERIENCE: 8 Units
MAMMOGRAPHY
Prerequisites: ARRT/CRT Certification or eligibility. Successful completion of R T 65 and current CPR Certification.
Forty hours laboratory. Designed as a practicum in a radiographic mammography department. Practical experience is implemented to expose the student to the principles of mammography with emphasis on mastery of the knowledge, insight and skills required to perform mammographic procedures.

R T 74 ADVANCED CLINICAL EXPERIENCE: 8 Units
COMPUTED TOMOGRAPHY
Forty hours laboratory. Designed as a practicum in a computed tomography department. Practical experience is implemented to expose the postgraduate radiologic technology student to the principles of CT with emphasis on mastery of the knowledge, insight and skills required to perform CT procedures.

R T 190 DIRECTED STUDY .5 Unit
R T 190X 1 Unit
R T 190Y 1.5 Units
R T 190Z 2 Units
Advisory: Pass/No Pass. Any combination of R T 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.
One-half hour lecture, one and one-half hours laboratory for each half unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

R T 200L RADILOGIC TECHNOLOGY AS A CAREER 1 Unit
Corequisite: Concurrent enrollment in AHS 200.
Two hours lecture-laboratory.
Introduction to the radiological sciences and their role in health care. Focus on the use of ionizing radiation in the diagnosis and treatment of disease and on the health professionals responsible for providing this medical specialty. Discussion of requirements for the Radiologic Technology Program. (Six hours hospital observation included).

REAL ESTATE
Business & Social Sciences Division
(650) 949-7322
www.foothill.edu/bss/

R E 50 REAL ESTATE PRINCIPLES 4 Units
Four hours lecture.
Fundamental principles, economics, law, working concepts, forms, and terminology. California real estate law as preparation for the salesman and broker examinations.

R E 51 REAL ESTATE PRACTICES 4 Units
Advisory: R E 50 (may be taken concurrently), or a current California Real Estate sales or broker’s license.
Four hours lecture.
Emphasizes day-to-day practical knowledge needed by persons engaged in the real estate business; procedures, forms, contracts; licensing laws; State of California Code of Professional Responsibility; and NAR Code of Ethics.

R E 52A LEGAL ASPECTS OF REAL ESTATE I 4 Units
Advisory: R E 50 (may be taken concurrently).
Four hours lecture.
California real property laws with emphasis on practical application. Illustrative California court cases and examples used for class discussions. Subjects covered include sources of real estate law; classes of property; fixtures; easements; estates or interests in real property; contracts of sale; covenants; conditions and restrictions. Mandatory for all real estate broker applicants.

R E 53 REAL ESTATE FINANCE 4 Units
Four hours lecture.
Regulations and procedures for financing real estate; types of lenders; methods of qualifying for loans; uses of mortgages, trust deeds, leases, common stock bonds; financial analysis of real properties.

R E 54 REAL ESTATE ECONOMICS 4 Units
Four hours lecture.
Economic factors affecting real estate: urban development, renewal and regulation of land uses; business fluctuations and real estate cycles; mortgage market; commercial, industrial and residential income properties and trends; rural and special purposes properties and trends.

R E 56A REAL ESTATE APPRAISAL I 4 Units
Advisory: R E 50 (may be taken concurrently).
Four hours lecture.
Introduction to principles of real estate valuation. Appraisal profession and process: data collection, methods, statistical analysis, the appraisal report, ethics. Emphasis on residential construction. Qualifies for California Appraiser Certification licensing requirements and broker’s licenses.

R E 56B REAL ESTATE APPRAISAL II 4 Units
Prerequisite: R E 56A.
Four hours lecture.
Advanced principles and practices of real estate valuation. Emphasis on appraising income property. Data collection, analysis, and reporting for commercial, apartment house, industrial, and vacant land. Qualifies for California Appraiser Certification licensing requirements and for broker’s license requirements.

R E 59 SURVEY OF REAL ESTATE PROPERTY MANAGEMENT 4 Units
Advisory: R E 50 (may be taken concurrently).
Four hours lecture.
Successful techniques and practices in the management of income property from acquisition to disposal; neighborhood analyses, rent schedules, leasing, credit, collections, evictions, maintenance and rehabilitation; insurance, tax considerations, depreciation schedules, pitfalls in purchase of income property.

R E 61 INTRODUCTION TO REAL ESTATE INVESTMENTS 4 Units
Four hours lecture.
Basic concepts and ideas concerning real estate investment for the beginning investor. How to evaluate an investment in terms of personal goals, return of investment, return on investment, tax advantages, and long-range trends. Methods of financing and managing real estate investments.

R E 73 COMMERCIAL REAL ESTATE FINANCE & INVESTMENT 4 Units
Four hours lecture.
Fundamental principles of finance and investment in local and regional commercial real estate, emphasizing banking, loans, underwriting, appraisal, lease preparation and renting.

RESPIRATORY THERAPY TECHNOLOGY
Biological & Health Sciences Division
(650) 949-7538
www.foothill.edu/bio/programs/respther/

RSPT 50A RESPIRATORY THERAPY PROCEDURES 4.5 Units
Prerequisite: Acceptance into Respiratory Therapy Program. Advisory: Eligibility for ESL 26 or ENGL 1A.
Corequisite: Concurrent enrollment in RSPT 52.
Three hours lecture, three hours laboratory, two hours skill development, one hour field experience.
Basic hospital and respiratory therapy procedures. Vital signs, compressed gas equipment, oxygen therapy, medical asepsis, bedside pulmonary function testing, disaster and emergency procedures, back safety.

RSPT 50B INTRODUCTION TO PROCEDURES & HOSPITAL ORIENTATION 6 Units
Prerequisite: RSPT 50A and CPR certification (Health Provider C) and RSPT 54.
Corequisite: RSPT 51A.
Three hours lecture, four and one-half hours laboratory, five hours clinic, two and one-half hours skill development.
Introduction to hospital and patient care, administration of hyperinflation therapy, humidity and aerosol therapy, chest physiotherapy techniques, use of bag/mask unit, infection control procedures.
RSPT 50C  THERAPEUTICS & INTRODUCTION TO MECHANICAL VENTILATION 4.5 Units
Prerequisite: RSPT 50B and 53A.
Two hours lecture, two hours laboratory, 10 hours clinic, one and one-half hours lecture-laboratory.
Practicum of skills in the clinic setting. Topics to be covered include IPPB, IPV, as well as introduction to invasive and non-invasive mechanical ventilation.

RSPT 50X  RESPIRATORY THERAPEUTICS 4 Units
Prerequisite: Acceptance into the Upgrade Respiratory Therapy Program. May be taken three times for credit.
Four hours lecture, one hour skills development.
A physiological and scientific basis of the modes of respiratory therapy used to treat pulmonary disorders. Develops the concepts and skills necessary to perform commonly prescribed respiratory therapy treatments.

RSPT 51A  INTRODUCTION TO RESPIRATORY ANATOMY & PHYSIOLOGY 2 Units
Prerequisite: Acceptance into the Respiratory Therapy Program. Two hours lecture.
Anatomy of the respiratory system, ventilation, diffusion of pulmonary gases, circulatory system, and oxygen transport.

RSPT 51B  RESPIRATORY PHYSIOLOGY 3 Units
Prerequisite: RSPT 51A or equivalent.
Three hours lecture.
Respiratory physiology: normal and altered lung physiology; ventilation-perfusion relationships; control of ventilation; renal, aging, exercise, altitude, high pressure effects on physiology; and arterial blood gas interpretation and acid-base physiology.

RSPT 51C  PATIENT ASSESSMENT & PULMONARY DISEASE 4.5 Units
Prerequisite: BIOL 41.
Corequisite: RSPT 51B.
Three hours lecture.
Physiological approach to the etiology, management, and prognosis of the various respiratory diseases. Utilization of physical examination, chest X-ray and basic clinical laboratory tests in the diagnosis and treatment of pulmonary disease.

RSPT 51X  CARDIOPULMONARY ANATOMY, PHYSIOLOGY & PATHOLOGY 4 Units
Prerequisite: Acceptance into the Upgrade Respiratory Therapy Program. May be taken three times for credit.
Four hours lecture.
Cardiopulmonary anatomy; respiratory physiology; respiratory lung mechanics; normal and altered lung physiology; ventilation-perfusion relationships; arterial blood gas interpretation and acid base balance; clinical laboratory tests; and cardiopulmonary disease.

RSPT 52  APPLIED SCIENCE FOR RESPIRATORY THERAPY 3 Units
Prerequisite: CHEM 25 or 30A and MATH 101, or high school chemistry or equivalent.
Three hours lecture.
Basic mathematics and science principles applicable to Respiratory Therapy. Includes algebra review, metric system, behavior of matter, forces, acids and bases, and electrical safety.

RSPT 53A  INTRODUCTION TO RESPIRATORY THERAPY PHARMACOLOGY 2 Units
Prerequisite: MATH 101.
Advisory: Concurrent enrollment in RSPT 50B.
Two hours lecture.
An in-depth study of drug groups commonly used in the treatment of airway obstruction.

RSPT 53B  ADVANCED RESPIRATORY THERAPY PHARMACOLOGY 2 Units
Prerequisite: RSPT 53A.
Corequisite: Concurrent enrollment in RSPT 60A.
Two hours lecture.
An in-depth study of drug groups commonly encountered in intensive respiratory care.

RSPT 54  ORIENTATION TO RESPIRATORY CARE 1.5 Units
Prerequisite: Acceptance into Respiratory Therapy Program.
One hour lecture, two hours laboratory, one hour field experience.
Orientation to health care with specific emphasis on respiratory care. Orientation to Respiratory Therapy Program. Current issues in American medical care. Professionalism; ethics; legal issues; death, dying and loss; communication skills; medical terminology; cultural diversity.

RSPT 55A–G  DIRECTED STUDIES IN RESPIRATORY THERAPY .5 Unit
Two hours laboratory.
Media instruction and evaluation in topics paralleling content taught in courses in the Respiratory Therapy program. Offered each quarter.

RSPT 60A  CARDIOLOGY FOR RESPIRATORY THERAPISTS 2 Units
Prerequisite: RSPT 61A.
Two hours lecture, one hour skills development.

RSPT 60B  ADVANCED CARDIAC LIFE SUPPORT 2 Units
Prerequisite: RSPT 53B and 60A.
Two hours lecture, one hour skills development.
Preparation for Advanced Cardiac Life Support Certification. Case studies.

RSPT 60C  PULMONARY DIAGNOSTICS 3 Units
Prerequisite: RSPT 51C.
Two and one half hours lecture, one and one half hours laboratory, one hour skills development.
Course covers selection, performance, and interpretation of tests used to diagnose cardiopulmonary abnormalities.

RSPT 60X  CARDIOPULMONARY DIAGNOSTICS 4 Units
Prerequisite: Completion of RSPT 50X and 51X.
Four hours lecture.
A survey of diagnostic tools and techniques used clinically to diagnose and assess the patient with cardiopulmonary dysfunction.

RSPT 61A  ADULT MECHANICAL VENTILATION 4 Units
Prerequisite: RSPT 50C and 51C.
Three hours lecture, three hours lecture-laboratory, one hour skills development.
Develops the concepts and skills essential to meeting the needs of patients placed on artificial ventilation. Includes laboratory exercises of commonly used ventilators and patient-ventilator simulations. For continuing education purposes, new ventilators and state-of-the-art theories on ventilation will be presented based upon current research.

RSPT 61B  NEONATAL & PEDIATRIC INTENSIVE CARE 4 Units
Prerequisite: RSPT 61A.
Three hours lecture, three hours laboratory, two hours field experience.
Neonatal and pediatric respiratory intensive care.

RSPT 61C  HOME & REHABILITATIVE RESPIRATORY CARE 2 Units
Prerequisite: RSPT 61B.
Two hours lecture, one hour field study.
Introduction to rehabilitative respiratory care. Discussion of respiratory therapy procedures and equipment used in the treatment of home care patients.

RSPT 62  MANAGEMENT, RESUME & NATIONAL BOARD EXAMINATION 1 Unit
Prerequisite: RSPT 61B.
One hour lecture, one hour skills development, one hour field experience.
A review of the concepts of management theory and good communication skills. Developing a multicultural organization, current health care economics and resume preparation are covered. Students take the National Board for Respiratory Care Mock Entry-Level Examination.
RSPT 63A ADVANCED PATHOPHYSIOLOGY & PATIENT MANAGEMENT 3 Units
Prerequisite: Completion of RSPT 61A or Respiratory Care Practitioner status. May be taken three times for credit.
Three hours lecture, one hour skills development.
The assessment and treatment of patients with Respiratory Disease through the use of case studies that illustrate key concepts. Emphasis on information gathering and decision making for respiratory care patients. Helpful for NBRC Clinical Simulation Examination preparation.

RSPT 64X ADVANCED PATHOPHYSIOLOGY & PATIENT MANAGEMENT & NBRC EXAMINATIONS 4 Units
Prerequisite: Completion of RSPT 60X and 62X or their equivalent. May be taken three times for credit.
Four hours lecture.
The assessment and treatment of patients with respiratory disease through the use of case studies that illustrate key concepts. Emphasis on information gathering and decision making for respiratory care patients. Helpful for NBRC Clinical Simulation Examination preparation.

RSPT 65 COMPUTER PATIENT SIMULATIONS .5 Unit
Prerequisite: Completion of RSPT 61A.
Two hours laboratory.
Information gathering and decision making in the management of patients with acute and chronic respiratory conditions.

RSPT 66A CONTINUING EDUCATION FOR RESPIRATORY CARE: ADVANCED PATIENT MANAGEMENT .5 Unit
May be taken six times for credit.
Two hours laboratory.
This course will develop and strengthen the respiratory care practitioner’s ability to apply advanced patient management concepts in the field of respiratory care. Media materials will provide an alternative learning resource for non-traditional students.

RSPT 67A CLINICAL ROTATION 2 Units
Prerequisite: RSPT 50C and 51C.
Ten hours laboratory.
Exposure to hospital departments. Clinical application of respiratory therapy procedures. Interpretation of basic diagnostic data and correlation to applied therapies.

RSPT 67B CLINICAL ROTATION 6 Units
Prerequisite: RSPT 61A and 70A.
Thirty hours laboratory.
Continuation of RSPT 70A with performance of more advanced respiratory therapy techniques. Interpretation of increasing amounts of clinical data and a correlation to applied therapies. Participation in cardiopulmonary resuscitations.

RSPT 67C CLINICAL ROTATION 6 Units
Prerequisite: RSPT 61B and 70B.
Thirty hours laboratory.
Continuation of RSPT 70B. Clinical application of theory relating to monitoring and management of neonate, pediatric, and adult intensive care unit patient.

RSPT 67D CLINICAL ROTATION 6 Units
Prerequisite: RSPT 70C.
Thirty hours laboratory.
Continuation of RSPT 70C. Further clinical experience with ventilation and special procedures of surgical, medical, neonatal, and pediatric intensive care, offered as options for remediation. Assignment dependent upon demonstrated student needs. Mini-rotations offered to qualified students, depending on interest.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008 www.foothill.edu
SOCIAL SCIENCE
Business & Social Sciences Division  (650) 949-7322  www.foothill.edu/bss/

SOC 20  CROSSCULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY  4 Units
Four hours lecture.
Analysis of the multiethnic forms of cultural domination and its diverse manifestation in society, emphasizing European and Third World cultures. Examination of the values and practices of democratic participation in social institutions in those cultures.
Review theories, concepts and research applicable to majority-minority issues.

SOC 34  HONORS INSTITUTE SEMINAR IN SOCIAL SCIENCE  1 Unit
Prerequisite: Membership in the Honors Institute.
One hour lecture.
A seminar in directed readings, discussions and projects in social science. Specific topics to be determined by the instructor.

SOC 35  DEPARTMENT HONORS PROJECT IN SOCIAL SCIENCE  1 Unit
SOC 35X  IN SOCIAL SCIENCE  2 Units
SOC 35Y  3 Units
SOC 35Z  4 Units
Any combination of SOC 35, 35X, 35Y & 35Z may be taken a maximum of six times for credit.
One hour lecture for each unit of credit.
Seminar in social science readings, research, critical techniques and analysis. Specific topics vary.

SOC 36  SPECIAL PROJECTS IN SOCIAL SCIENCE  1 Unit
SOC 36W  .5 Unit
SOC 36X  2 Units
SOC 36Y  3 Units
SOC 36Z  4 Units
Any combination of SOC 36, 36X, 36Y & 36Z may be taken for a maximum of six units.
One hour lecture for each unit of credit.
Advanced readings, research, and/or project in social science. Specific topics determined in consultation with instructor.

SOC 75  TUTOR TRAINING METHODS  .5 Unit
Prerequisite: Employment as a tutor. Grade of A in courses in which the student will be tutoring. Letter of recommendation from Foothill instructor in corresponding course.
May be taken three times for credit.
One-half hour lecture.
Introduction to theories and methods of effective tutoring, including role of a tutor, relationship of tutor to students and faculty.

SOC 79  INTRODUCTION TO COMMUNITY SERVICE  1 Unit
May be taken three times for credit.
Three or nine hours laboratory.
Introduction to theories and methods of effective volunteer participation in community service, including assessing community needs, role of the volunteer, relationship with public agencies.

SOC 155  STANDARDIZED TEST PREPARATION  .5 Unit
SOC 155Z  2 Units
Advisory: Pass/No Pass.
Any combination of SOC 155 & 155Z may be taken a maximum of six times for credit.
One-half hour lecture for each half unit of credit.
Test-taking strategies for standardized college entrance tests. Analysis of test structure and content. Identification of areas of weakness; practice with those areas.

SOC 460  SUPERVISED TUTORING  0 Units
May be taken six times.
One-half hour lecture, seven and one-half hours laboratory.
Individual study and/or guidance provided for students who desire or require additional assistance in any discipline for which tutorial assistance is available.

SOSC 490  SUPERVISED TUTORING  0 Units
May be taken six times.
One-half hour lecture, one and one-half hours laboratory.
Individual study and/or guidance provided for students who desire or require additional assistance in any discipline for which tutorial assistance is available.

SOCIOLOGY
Business & Social Sciences Division  (650) 949-7322  www.foothill.edu/bss/

SOC 1  INTRODUCTION TO SOCIOLOGY  5 Units
Five hours lecture.
Introduction to the principal concepts, methods, and insights of the scientific study of human society. The individual in his interaction with society; group life in its structural and functional aspects. Major social institutions and selected social processes. [CAN SOC 2]

SOC 8  POPULAR CULTURE  4 Units
Four hours lecture.
Theoretical and methodological overview of American popular culture. A critical examination of the socio-historical development and contemporary forms of popular culture in America. The relationship of popular culture to individual, group and mass identity formation. Analysis of popular culture and its racial and class dimensions.

SOC 10  INTRODUCTION TO SOCIAL RESEARCH  4 Units
Advisory: Not open to students with credit in PSYC 10.
Four hours lecture.
Introduction to the most common types of research on human behavior: experimentation, survey research and field research. Examination of the logic of each technique, applicability of techniques using actual research studies; limitations of studying human behavior emphasized.

SOC 11  INTRODUCTION TO SOCIAL WELFARE  5 Units
Five hours lecture.
Sociological perspective of social welfare and the social services system as a field of study and profession. Historical overview of social problems and development of the professional fields. Focus on range of sociological theory to explain development of social services systems, their core concepts, value systems and methods.

SOC 15  LAW & SOCIETY  4 Units
Four hours lecture.
Introduction to the relationship of law, society and the individual. Institutional analysis of factors underlying the creation, maintenance, and change of legal systems. Theories of jurisprudence and practical problems of law enforcement and the administration of justice.

SOC 19  ALCOHOL & DRUG ABUSE  4 Units
Four hours lecture.
Introduction to problems of substance abuse. History and classification of alcohol and drug abuse. Equips human service workers and general public with knowledge about issues involved in alcohol and drug abuse. Intervention and rehabilitation programs as well as public policy paradigms are examined.

SOC 20  MAJOR SOCIAL PROBLEMS  4 Units
Four hours lecture.
Nature and origins of the principal social problems of our time. Consequences of industrialization, rapid technological change, and resultant tensions of changing status and status in groups and individuals. Types of remedial social action applicable in each situation. Institutional or deviance approaches acceptable. Research methodology and techniques reviewed. [CAN SOC 4]

SOC 21  PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES  4 Units
Advisory: Not open to students with credit in PSYC 21 or WMN 21.
Four hours lecture.
Survey of gender issues based upon psychological and sociological theories and research. Examination of sex roles stereotyping and differences. Developmental considerations.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008  www.foothill.edu
SPANISH

Language Arts Division
(650) 949-7250
www.foothill.edu/la/

SPAN 1 ELEMENTARY SPANISH 5 Units
Five hours lecture, two hours laboratory.
Development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas. [CAN SPAN 1, CAN SPAN 2 = SPAN 1+2, CAN SPAN SEQ A = SPAN 1+2+3]

SPAN 2 ELEMENTARY SPANISH 5 Units
Prerequisite: SPAN 1 or one year of high school Spanish.
Five hours lecture, two hours laboratory.
Further development and practice of elementary speaking, listening, reading and writing skills in everyday language function, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas. [CAN SPAN 2 = SPAN 1+2, CAN SPAN 3, CAN SPAN 4 = SPAN 3+4, CAN SPAN SEQ A = SPAN 1+2+3]

SPAN 3 ELEMENTARY SPANISH 5 Units
Prerequisite: SPAN 2 or two years of high school Spanish.
Five hours lecture, two hours laboratory.
Further development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with focus on greater structural accuracy and communicative competence, and with Spanish as the language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas. [CAN SPAN 4 = SPAN 2+3, CAN SPAN 5, CAN SPAN SEQ A = SPAN 1+2+3]

SPAN 4 INTERMEDIATE SPANISH 5 Units
Prerequisite: SPAN 3 or three years of high school Spanish.
Five hours lecture, one hour laboratory.
Reading and discussion of texts dealing with the literature, arts, geography, History and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding vocabulary about familiar topics and idiomatic usage. Writing and reading assignments based upon topics discussed in class. [CAN SPAN 7, CAN SPAN SEQ B = SPAN 4+5+6]

SPAN 5 INTERMEDIATE SPANISH 5 Units
Prerequisite: SPAN 4 or four years of high school Spanish.
Five hours lecture, one hour laboratory.
Reading and discussion of texts dealing with the literature, arts, geography, History and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding concrete vocabulary about new topics, and idiomatic usage. Writing and reading assignments based upon topics discussed in class. [CAN SPAN 9, CAN SPAN SEQ B = SPAN 4+5+6]

SPAN 6 INTERMEDIATE SPANISH 5 Units
Prerequisite: SPAN 5.
Five hours lecture, one hour laboratory.
Reading and discussion of texts dealing with the literature, arts, geography, History and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding abstract vocabulary, and idiomatic usage. Writing and reading assignments based upon topics discussed in class. [CAN SPAN 11, CAN SPAN SEQ B = SPAN 4+5+6]

SPAN 10A SPANISH FOR HERITAGE SPEAKERS 5 Units
Prerequisite: SPAN 6.
Five hours lecture.
Reading and writing in Spanish, targeted to Spanish speakers. Readings pertinent to the life and culture of Hispanics in the U.S., compositions, exploring both personal and political issues, exams, advanced grammar. Instruction in Spanish.

SPAN 13A INTERMEDIATE CONVERSATION I 3 Units
Prerequisite: SPAN 3.
Advisory: May be taken concurrently with SPAN 4.
Three hours lecture, one hour laboratory.
Review and development of oral and listening communication skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary Spanish as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural and historical issues based on authentic texts, current news broadcasts, and/or films.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SPAN 13B</td>
<td>INTERMEDIATE CONVERSATION II</td>
<td>3</td>
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<td>Prerequisite: SPAN 13A.</td>
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<td>Advisory: May be taken concurrently with SPAN 5.</td>
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<td>Three hours lecture, one hour laboratory.</td>
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</table>

Continuation of SPAN 13A. Review and development of oral and listening communication skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary Spanish as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural historical and political issues based on authentic texts, current news broadcasts, and/or films. Develop critical thinking skills by comparing different viewpoints and different values of diverse cultures.

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPAN 14A</td>
<td>ADVANCED CONVERSATION I</td>
<td>3</td>
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<td>Prerequisite: SPAN 13B.</td>
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<td>Advisory: May be taken concurrently with SPAN 5.</td>
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<td>Three hours lecture, one hour laboratory.</td>
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</table>

Continuation of SPAN 13B. Designed to give students practice in oral/aural communication skills in an environment of increasingly challenging language situations. Prerequisite: SPAN 13A. Practice of the idioms and vocabulary as different from the usage of formal, written and literal language. Work on differentiating and choosing the culturally appropriate register for a given situation. Discussion of the cultural manifestations and History of the Spanish-speaking world, including that of the Latino population of the U.S.

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<tbody>
<tr>
<td>SPAN 14B</td>
<td>ADVANCED CONVERSATION II</td>
<td>3</td>
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<tr>
<td></td>
<td>Prerequisite: SPAN 14A.</td>
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<tr>
<td></td>
<td>Advisory: May be taken concurrently with SPAN 6.</td>
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<tr>
<td></td>
<td>Three hours lecture, one hour laboratory.</td>
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</table>

Continuation of SPAN 14A. Designed to give students practice in oral/aural communication skills in an environment of increasingly challenging language situations. Prerequisite: SPAN 14A. Practice of the idioms and vocabulary as different from the usage of formal, written and literal language. Work on differentiating and choosing the culturally appropriate register for a given situation. Discussion of the cultural manifestations and History of the Spanish-speaking world, including that of the Latino population of the U.S.

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<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>SPAN 25A</td>
<td>ADVANCED COMPOSITION &amp; READING</td>
<td>4</td>
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<tr>
<td></td>
<td>Prerequisite: SPAN 6.</td>
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<tr>
<td></td>
<td>Four hours lecture.</td>
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</tbody>
</table>

Four hours lecture. Extensive reading and analysis of original Spanish literary and non-literary sources from Spanish speaking countries and the Hispanic communities in the U.S., such as newspapers, reports, films and music. Intensive discussion and writing based on these readings to promote a critical appreciation of Hispanic culture, society and history. Understanding of the use of advanced grammar in writing communication. Instruction in Spanish.

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<tbody>
<tr>
<td>SPAN 25B</td>
<td>ADVANCED COMPOSITION &amp; READING</td>
<td>4</td>
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<tr>
<td></td>
<td>Prerequisite: SPAN 25A.</td>
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<tr>
<td></td>
<td>Four hours lecture.</td>
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</table>

Continuation of SPAN 25A. Extensive reading and analysis of texts with emphasis on literary works such as short stories, essays and poems. Critical analysis of the major political, historical and social issues exposed in these texts. Writing of extended term papers and compositions using advanced grammar. Understanding and appreciating the ambiguities, vagaries and value inherent in the target language. Instruction in Spanish.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SPAN 34</td>
<td>HONORS INSTITUTE SEMINAR IN SPANISH</td>
<td>1</td>
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<td></td>
<td>Prerequisite: Membership in the Honors Institute.</td>
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<td></td>
<td>One hour lecture.</td>
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</table>

A seminar in directed readings, discussions, and projects in Spanish. Specific topics to be determined by the instructor.

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<tr>
<th>Course Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>SPAN 36</td>
<td>SPECIAL PROJECTS IN SPANISH</td>
<td>1</td>
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<td></td>
<td>Prerequisite: SPAN 5.</td>
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<td>Advisory: Enrollment for this course is available in the Language Arts Division Office.</td>
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<td>Four hours lecture for each unit of credit.</td>
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A study oriented toward spoken and/or written practice in Spanish. Development of research and critical techniques adapted to individual writing and/or oral presentation projects under instructor supervision. Not to be substituted for departmental requirements.

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<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>SPAN 36X</td>
<td>CONTEMPORARY HISPANIC LITERATURE IN TRANSLATION</td>
<td>4</td>
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<td></td>
<td>Advisory: Eligibility for ENGL 1A or ESL 26.</td>
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<td></td>
<td>Four hours lecture.</td>
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Reading and study of selected literature from Spanish-speaking countries, which represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Discussion focuses on specific cultural, social, historical and political aspects as expressed through different literary genres.

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<th>Units</th>
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<tbody>
<tr>
<td>SPAN 110</td>
<td>SPANISH LANGUAGE &amp; CULTURE</td>
<td>2.5</td>
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<tr>
<td></td>
<td>Two and one-half hours lecture, one hour laboratory.</td>
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</table>

Continued practice of spoken and written Spanish with an emphasis on increasing fluency and refining communication. Further development of grammatical foundation to provide basis for continued advanced level study. Presentation of increasingly complex language situations through readings and material on Spanish culture and society.

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<th>Course Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>SPAN 190</td>
<td>DIRECTED STUDY</td>
<td>.5</td>
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<tr>
<td></td>
<td>Prerequisite: SPAN 110.</td>
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<tr>
<td></td>
<td>Two and one-half hours lecture, one hour laboratory.</td>
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</tbody>
</table>

Continued practice of spoken and written Spanish with an emphasis on increasing fluency and refining communication. Further development of grammatical foundation to provide basis for continued advanced level study. Presentation of increasingly complex language situations through readings and material on Spanish culture and society.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SPAN 190X</td>
<td>INTRODUCTION TO ADAPTIVE FITNESS TECHNIQUES</td>
<td>3</td>
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<td></td>
<td>Two hours lecture, three hours laboratory.</td>
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Designed to provide the fitness professional the knowledge necessary to allow the disabled and/or older adult person the opportunity to attain basic functional fitness skills.

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<th>Course Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>SPED 50</td>
<td>INTERGENERATIONAL ADULT HEALTH &amp; DEVELOPMENT</td>
<td>3</td>
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<tr>
<td></td>
<td>May be taken six times for credit.</td>
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<tr>
<td></td>
<td>Two hours lecture, three hours laboratory.</td>
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</table>

An intergenerational approach to healthy aging with an emphasis in the physiological, psychological, and sociological aspects. Application of wellness activities, fitness modalities and health lectures. Hands-on experience with a diverse population, including older adults, veterans and the disabled. An interdisciplinary approach will be emphasized.
SPED 54  PRINCIPLES OF THERAPEUTIC EXERCISE  4 Units
Three hours lecture, three hours laboratory.
Designed to provide the fitness professional the basic skills necessary to execute a therapeutic exercise program.

SPED 55  GERIATRIC FITNESS CONCEPTS  3 Units
Two hours lecture, three hours laboratory.
Designed to provide the adaptive fitness professional the knowledge necessary to work with older adults and the disabled within the psycho-motor domain.

SPED 56  FUNCTIONAL ASPECTS OF ADAPTIVE FITNESS  3 Units
Two hours lecture, three hours laboratory.
Designed to provide the student with the fundamentals and principles of adaptive fitness. Students will learn to measure and evaluate the current fitness level of physical fitness via various field-based assessment tools. Students will learn functional activities used to improve activities of daily living. Students will develop understanding and skills needed for proper implementation of adaptive fitness education such as range of motion, transfers, and wheelchair management.

SPED 57  WORKING WITH SPECIAL POPULATIONS  3 Units
Two hours lecture, three hours laboratory.
Designed to develop effective techniques to meet the learning style of the atypical learner. Focus will be to provide student with skills and strategies to work with special populations. Application of principles through hands-on experience and internships.

SPED 59  SELECTED TOPICS IN SPECIAL EDUCATION  2 Units
May be taken two times for credit.
Two hours lecture.
Exploring the field of rehabilitation and special education, including a survey of upper division course work and graduate level degrees. An introduction to the variety of careers working with special populations in a variety of settings, including education, industry and non-profit organizations. Course will include a forum of guest speakers, field practicum and research project.

SPED 61  INTRODUCTION TO DISABILITIES  4 Units
Advisory: Eligibility for ENGL 1A.
Four hours lecture.
Overview of all major categories and characteristics of disabilities. Physical, Sensory, Developmental and Learning Disabilities discussed. Cultural/experiential aspects of disabilities from the perspectives of disabled individuals explored through readings and guest speakers. Contrasts disabled with non-disabled culture including cross-cultural perspectives of the disabled experience. Emphasis placed on recognition of strengths and abilities to provide strategies for instruction and accommodations.

SPED 62  PSYCHOLOGICAL ASPECTS OF DISABILITY  4 Units
Four hours lecture.
Psychological aspects of disability, including psychosocial, cultural, and physical considerations of disability and illness.

SPED 63  LEARNING DISABILITIES  4 Units
Four hours lecture.
Focuses on the field of learning disabilities in terms of function of the information processing system for learning theories and practices that have influenced the field. Explores best practices for effective instruction for people with learning disabilities.

SPED 64  DISABILITY & THE LAW  4 Units
Four hours lecture.
Legal rights of the disabled, beginning with historical roots of the disability movement in the United States. Earliest to current legislation governing access to education, employment, public and private facilities. Legal definitions of disability. Brings student up to the present with federal, state and local legal mandates and explores in detail the Americans With Disabilities Act, Individuals with Disabilities Act and California Special Education Law using case studies and current actions in the court system.

SPED 65  FUNDAMENTALS OF ATTENTION DEFICIT DISORDERS  4 Units
Prerequisite: Eligibility for ENGL 1A.
Four hours lecture.
An overview of attention deficit disorders, subtypes, presenting symptoms, interventions, teaching strategies and educational and legal ramifications. Intended for educators and parents.

SPED 66  DISABILITY & TECHNOLOGY ACCESS  4 Units
Four hours lecture.
Philosophy, legal requirements, design and use of accessible technology.

SPED 67  ADAPTIVE FITNESS DIRECTED STUDY  1 Unit
SPED 67X  2 Units
SPED 67Y  3 Units
Any combination of SPED 67, 67X & 67Y may be taken a maximum of six times for credit.
Three hours laboratory for each unit of credit.
Designed to provide the Adaptive Fitness Technician student an opportunity to augment skills, experience and knowledge base through additional practical work experience, directed readings, and/or by viewing instructional videos. The student will have the opportunity to work independently to increase their knowledge base and understanding of a variety of chronic medical conditions as related to fitness.

SPED 69  SPECIAL EDUCATION STRATEGIES & PRACTICUM  4 Units
Three hours lecture, three hours laboratory.
An overview of the field of special education. Focuses on components of instruction for students with disabilities. Field work activity required.

SPED 70  PRINCIPLES OF THERAPEUTIC AQUATIC EXERCISE  3 Units
May be taken six times for credit.
Two hours lecture, three hours laboratory.
Designed to develop an understanding of the water training principles, water equipment, injury prevention, teaching techniques, deep and shallow water fitness routines, and business strategies. Also, included in this course are special populations, anatomy and biomechanics, and adapted fitness assessments.

SPED 71  SPECIAL TOPICS IN THE FIELD OF FITNESS THERAPY  3 Units
Two hours lecture, three hours laboratory.
Designed to provide the Adaptive Fitness Technician student an opportunity to augment skills, experience and knowledge base through additional specialized short course. Practical work experience, directed readings, and/or the viewing of instructional videos will be used to complement the learning experience. The student will have the opportunity to work to attend highly specialized classes to enhance their knowledge base in the expanding field of Adaptive Fitness. Topics will range from the theory of balance training, adapted aquatics, fitness evaluation, and living topics to any issue that is pertinent to fitness therapy. Special assignments will be offered to provide deeper learning into knowledge base and understanding of fitness therapy topics and medical conditions related to fitness.

SPED 72  STRESS, WELLNESS & COPING  3 Units
Three hours lecture
Explore and become familiar with symptoms of stress, depression, and anxiety. Examine the social and psychological factors that contribute to these problems and the patterns of behavior which result. Learn, utilize, and understand effective coping strategies to promote self-awareness, personal wellness, and academic success and model these strategies for members of the community. Emphasis placed on mental health and application of self-help skills.

SPEECH
See Communication Studies

THEATRE ARTS
See Drama

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2007–2008  www.foothill.edu  237
### TRAVEL CAREERS

Business & Social Sciences Division  
(650) 949-7263  
www.foothill.edu/bss/

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>T C 50</td>
<td>INTRODUCTION TO TRAVEL CAREERS</td>
<td>2</td>
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<tr>
<td></td>
<td>Two hours lecture, one hour laboratory.</td>
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<tr>
<td></td>
<td>Explores the many career choices offered by one of the world's largest industries. Introduction to the special language and dynamics of the travel business.</td>
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<td>T C 51</td>
<td>TOURISM IN NORTH AMERICA</td>
<td>4</td>
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<td></td>
<td>Four hours lecture, one hour laboratory.</td>
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<td></td>
<td>Overview of geography and major tourist centers of North America. Focus on contemporary political and social developments affecting tourism. Professional applications of travel industry resources in designing itineraries. Introduction to selling techniques.</td>
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<td>T C 52</td>
<td>TOURIST CENTERS OF EUROPE</td>
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<td>Four hours lecture, one hour laboratory.</td>
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<td></td>
<td>Explores various cultures, geographical features, major art centers, and architectural highlights within Western and Eastern Europe. Emphasizes contemporary political, social, and economic developments affecting tourism. Practical applications of selling and itinerary planning: routings, modes of travel, allocation of time.</td>
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<tr>
<td>T C 53</td>
<td>GLOBAL TOURISM</td>
<td>4</td>
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<td>Four hours lecture, one hour laboratory.</td>
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<td>Examines the impact of tourism within the global community. Surveys the geography, history, political and economic systems, religions, art, and cultures of key world tourist destinations. Sales methods, routings and itineraries, using current travel industry resources.</td>
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<tr>
<td>T C 54</td>
<td>SELLING CRUISES</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four hours lecture, one hour laboratory.</td>
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<tr>
<td></td>
<td>Cruise product orientation for travel career majors. Focus on increasing profits through cruiseship sales. Exploring cruise itineraries and ports using current brochures and Internet.</td>
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<tr>
<td>T C 55</td>
<td>SELLING DOMESTIC TRAVEL</td>
<td>4</td>
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<tr>
<td></td>
<td>Four hours lecture, one hour laboratory.</td>
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<tr>
<td></td>
<td>Student participation within a simulated travel agency. Using industry reference materials to plan domestic itineraries.</td>
<td></td>
</tr>
<tr>
<td>T C 56</td>
<td>SELLING FOREIGN INDEPENDENT TOURS</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four hours lecture, one hour laboratory.</td>
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</tr>
<tr>
<td></td>
<td>Advanced office procedures. Emphasis upon complex travel problems and the preparation of worldwide itineraries.</td>
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</tr>
<tr>
<td>T C 58</td>
<td>SELLING GROUP TRAVEL</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Four hours lecture, one hour laboratory.</td>
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</tr>
<tr>
<td></td>
<td>The tour operator at work. Creating, operating and marketing of travel for groups in both retail and wholesale companies.</td>
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</tr>
<tr>
<td>T C 59</td>
<td>TRAVEL SALES TECHNIQUES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Three hours lecture, one hour laboratory.</td>
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</tr>
<tr>
<td></td>
<td>Dynamics of selling the travel product from qualifying the client to closing the sale.</td>
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</tr>
<tr>
<td>T C 60</td>
<td>TRAVEL ONLINE</td>
<td>1</td>
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<tr>
<td></td>
<td>Two hours lecture-laboratory, two hours laboratory.</td>
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<tr>
<td></td>
<td>Introduction to using two powerful tools: the Internet and SABRE, a professional airline reservation system. Designed for travel careers majors, as well as savvy travelers. Hands-on experience offered in the on-campus Travel Careers Computer Training Center.</td>
<td></td>
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<tr>
<td>T C 62A</td>
<td>CREATING TRAVEL RESERVATIONS: BASIC</td>
<td>2</td>
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<tr>
<td></td>
<td>Four hours lecture-laboratory, two hours laboratory.</td>
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<tr>
<td></td>
<td>Selling travel by booking passengers using the Internet and SABRE systems. Reading flight schedules, making airline reservations, quoting costs of bookings. Instruction offered in the Travel Careers Computer Training Center.</td>
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<tr>
<td>T C 62B</td>
<td>CREATING TRAVEL RESERVATIONS: ADVANCED</td>
<td>2</td>
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<tr>
<td></td>
<td>Advisories: T C 62A, Four hours lecture-laboratory, two hours laboratory. Continuation of T C 62A. Extensive practice in selling travel on the SABRE system and through the Internet. Booking hotels, cars, and other components of an itinerary. Instruction offered in the Travel Careers Computer Training Center.</td>
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<tr>
<td>T C 64</td>
<td>AIR TICKETING: NORTH AMERICA</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Two hours lecture, one hour lecture-laboratory, three hours laboratory. Introduction to the various domestic airline fares and rules. Instruction offered in the Travel Careers Computer Training Center.</td>
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<tr>
<td>T C 65</td>
<td>AIR TICKETING: INTERNATIONAL</td>
<td>3</td>
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<tr>
<td></td>
<td>Two hours lecture, one hour lecture-laboratory, three hours laboratory. Employing international airline rules, the mileage principle, Neutral Units of Construction, and consolidator fares in planning worldwide air itineraries. Instruction offered in the Travel Careers Computer Training Center.</td>
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</tr>
<tr>
<td>T C 67</td>
<td>BUSINESS TRAVEL RESERVATIONS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Advisory: T C 62B, Four hours lecture-laboratory, two hours laboratory. Intensive use of the SABRE system and Internet. Developing speed and accuracy in creating business travel reservations for both domestic and international destinations. Instruction offered in the Travel Careers Computer Training Center.</td>
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<tr>
<td>T C 68</td>
<td>LEISURE TRAVEL RESERVATIONS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Advisory: T C 54 and 62B, Four hours lecture-laboratory, two hours laboratory. Using the Internet and SABRE formats to create leisure itineraries. Practice with sales techniques. Instruction offered in the Travel Careers Computer Training Center.</td>
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</tr>
<tr>
<td>T C 70</td>
<td>SPECIAL WORLDWIDE DESTINATIONS</td>
<td>4</td>
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<td></td>
<td>Four hours lecture, one hour laboratory.</td>
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<td></td>
<td>Searches for extraordinary places that are less visited. Probes into their unique geographical, historical, political, ecological, and cultural features. Sales techniques and industry resources useful in designing itineraries for fresh touristic journeys. Emphasis upon travelers with special interests.</td>
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<tr>
<td>T C 74</td>
<td>TOUR DIRECTING</td>
<td>3</td>
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<td></td>
<td>Three hours lecture, one hour laboratory.</td>
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<tr>
<td></td>
<td>Preparation for leading and managing both domestic and international tour groups. Opportunity to participate in a local motorcoach tour.</td>
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<tr>
<td>T C 75</td>
<td>OPERATING WHOLESALE TOURS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Three hours lecture, one hour laboratory.</td>
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<tr>
<td></td>
<td>Advanced study of the tour operator at work. Planning and pricing a tour, negotiating with suppliers, and producing a brochure that sells. Procedures for starting a tour company.</td>
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<tr>
<td>T C 78</td>
<td>MANAGING A TRAVEL BUSINESS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Two hours lecture, one hour laboratory.</td>
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<tr>
<td></td>
<td>Organizing and managing your own travel business, either home-based or in an agency. Survey of industry regulations and resources, employee recruitment and training, accounting and automation, financial planning, marketing and other management techniques.</td>
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<tr>
<td>T C 79A</td>
<td>TOURISM SEMINAR SERIES: SALES &amp; SERVICE</td>
<td>.5</td>
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<tr>
<td></td>
<td>May be taken six times for credit.</td>
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<tr>
<td></td>
<td>One six-hour lecture.</td>
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<td></td>
<td>Successful strategies to enhance the travel professional's expertise in selling the world. Emphasis will be given to increasing sales through exceptional customer service.</td>
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<tr>
<td>T C 79B</td>
<td>TOURISM SEMINAR SERIES: HIGH-TECH TRAVEL</td>
<td>.5</td>
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<tr>
<td></td>
<td>May be taken six times for credit.</td>
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<tr>
<td></td>
<td>One six-hour lecture.</td>
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<tr>
<td></td>
<td>Using cutting-edge technology to enhance the travel professional's expertise in selling the world.</td>
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</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

Foothill College 2007–2008  www.foothill.edu
T C 79C TOURISM SEMINAR SERIES: PROFESSIONAL DEVELOPMENT .5 Unit
Advisory: Pass/No Pass. May be taken six times for credit. One six-hour lecture. Exploring current topics and trends within the travel industry to enhance the professional's expertise and ability to compete in today's global village.

T C 79D TOURISM SEMINAR SERIES: DESTINATIONS IN DEPTH .5 Unit
May be taken six times for credit. One six-hour lecture. Exploring one area of the world to enhance the travel professional's expertise in selling the product.

T C 79E TOURISM SEMINAR SERIES: MARKETING THE TRAVEL PRODUCT .5 Unit
Advisory: Pass/No Pass. May be taken six times for credit. One six-hour lecture. Relevant topics to enhance the travel professional's expertise. Exploring unique opportunities to increase profits and build market share.

T C 81A DESTINATION SPECIALIST SERIES: CHINA 1 Unit
One hour lecture, one hour laboratory. Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of China. Emphasis on professional sales techniques, qualifying the client and useful industry resources.

T C 81B DESTINATION SPECIALIST SERIES: HAWAII 1 Unit
One hour lecture, one hour laboratory. Destination Specialist course from The Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of Hawaii. Emphasis on professional sales techniques, qualifying the client and useful industry resources.

T C 81C DESTINATION SPECIALIST SERIES: ALASKA 1 Unit
One hour lecture, one hour laboratory. Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geography and cultural features of Alaska, highlighting major tourism areas. Emphasis on professional sales strategies, suggested land and cruise itineraries, and useful industry resources.

T C 81E DESTINATION SPECIALIST SERIES: SPAIN 1 Unit
One hour lecture, one hour laboratory. Destination Specialist course from the Travel Institute. Provides in-depth study of geographical, historical, political, and cultural features of Spain, highlighting major tourism areas. Emphasis on professional sales strategies and techniques, suggested itineraries, and useful industry resources.

T C 81F DESTINATION SPECIALIST SERIES: FRANCE 1 Unit
One hour lecture, one hour laboratory. Destination Specialist course from the Travel Institute. In-depth study of geographical, historical, political, and cultural features of France, highlighting major tourism areas. Emphasis on professional sales strategies and techniques, suggested itineraries, and useful industry resources.

T C 81M DESTINATION SPECIALIST SERIES: MEXICO 1 Unit
One hour lecture, one hour laboratory. Destination Specialist course from The Travel Institute. In-depth study of geographical, historical, political, and cultural features of Mexico, highlighting major tourism areas. Emphasis on professional sales strategies and techniques, suggested itineraries, and useful industry resources.

T C 82A DESTINATION SPECIALIST SERIES: CARIBBEAN 2 Units
Two hours lecture, one hour laboratory. Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of the Caribbean, highlighting major tourism areas. Emphasis on professional sales techniques.

T C 82B DESTINATION SPECIALIST SERIES: EAST ASIA 2 Units
Two hours lecture, one hour laboratory. Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of East Asia, highlighting major tourism areas. Emphasis on professional sales techniques.

T C 82C DESTINATION SPECIALIST SERIES: EASTERN EUROPE 2 Units
Two hours lecture, one hour laboratory. Destination Specialist (DS) course from the Travel Institute. Provides in-depth knowledge of geographical, historical, political, and cultural features of various countries of Eastern Europe, highlighting major tourism areas. Emphasis on professional sales techniques.

T C 82D DESTINATION SPECIALIST SERIES: SOUTH PACIFIC 2 Units
Two hours lecture, one hour laboratory. Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, political, and cultural features of Australia, New Zealand, and various islands in Micronesia, Melanesia, and Polynesia, highlighting major tourism areas. Emphasis on professional sales techniques.

T C 82E DESTINATION SPECIALIST SERIES: SOUTHERN EUROPE 2 Units
Two hours lecture, one hour laboratory. Destination Specialist course from The Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of southern, eastern and northern Africa highlighting major tourism areas. Emphasis on professional sales techniques, qualifying the client and useful industry resources.

T C 83A DESTINATION SPECIALIST SERIES: AFRICA 3 Units
Three hours lecture, one hour laboratory. Destination Specialist course from the Travel Institute. Provides in-depth study of geographical, historical, and cultural features of various countries in Africa highlighting major tourism areas. Emphasis on professional sales techniques, qualifying the client and useful industry resources.

T C 83B DESTINATION SPECIALIST SERIES: LATIN AMERICA 3 Units
Three hours lecture, one hour laboratory. Destination Specialist Program from The Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of Latin America, highlighting major tourism areas. Emphasis on professional sales techniques, qualifying the client and useful industry resources.

T C 83C DESTINATION SPECIALIST SERIES: NORTH AMERICA 3 Units
Three hours lecture, one hour laboratory. Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of the United States and Canada, highlighting major tourism areas. Emphasis on professional sales techniques, qualifying the client and useful industry resources.

T C 83D DESTINATION SPECIALIST SERIES: WESTERN EUROPE 3 Units
Three hours lecture, one hour laboratory. Destination Specialist course from The Travel Institute. Provides in-depth knowledge of geographical, historical, political, and cultural features of various countries in Western Europe, highlighting major tourism areas. Emphasis on professional sales techniques.

T C 83E DESTINATION SPECIALIST: NORTHERN & CENTRAL EUROPE 3 Units
Three hours lecture, one hour laboratory. Destination Specialist (DS) course from The Travel Institute. In-depth study of geographical, historical, political and cultural features of various countries in Northern and Central Europe, highlighting major tourism areas. Emphasis on professional sales techniques, suggested itineraries and useful industry resources.
### VETERINARY TECHNOLOGY

**Biological & Health Sciences Division**

(650) 949-7538  
www.foothill.edu/bio/programs/vettech/

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC 92</td>
<td>TRAVEL CAREERS TUTOR TRAINING</td>
<td>1 Unit</td>
</tr>
<tr>
<td>TC 92X</td>
<td></td>
<td>2 Units</td>
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<tr>
<td>TC 92Y</td>
<td></td>
<td>3 Units</td>
</tr>
</tbody>
</table>

Prerequisite: Permission of Program Coordinator.  
Advisory: Pass/No Pass.  
Any combination of TC 92, 92X & 92Y may be taken for a maximum of six units.  
Three hours laboratory for each unit of credit.  
Practice in individual tutoring under instructional supervision.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>TC 100</td>
<td>OPEN COMPUTER LABORATORY</td>
<td>.5 Unit</td>
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<tr>
<td>TC 100X</td>
<td></td>
<td>1 Unit</td>
</tr>
<tr>
<td>TC 100Y</td>
<td></td>
<td>1.5 Units</td>
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<tr>
<td>TC 100Z</td>
<td></td>
<td>2 Units</td>
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</tbody>
</table>

Prerequisite: Prior enrollment in any Travel Careers course requiring computer usage.  
Advisory: Pass/No Pass.  
Any combination of TC 100, 100X, 100Y & 100Z may be taken a maximum of six times for credit.  
One and one-half hours laboratory for each half unit of credit.  
Practice sessions in the Travel Careers Computer Training Center and the BSS Social Sciences Lab to help students gain expertise on the SABRE system and gain exposure to travel-related software, the Internet, and travel industry videotapes.

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<tr>
<th>Course Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>TC 190</td>
<td>DIRECTED STUDY</td>
<td>.5 Unit</td>
</tr>
<tr>
<td>TC 190X</td>
<td></td>
<td>1 Unit</td>
</tr>
<tr>
<td>TC 190Y</td>
<td></td>
<td>1.5 Units</td>
</tr>
<tr>
<td>TC 190Z</td>
<td></td>
<td>2 Units</td>
</tr>
</tbody>
</table>

Advisory: Pass/No Pass.  
Any combination of TC 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.  
One-half hour lecture, one and one-half hours laboratory for each unit of credit.  
For students who desire or require additional help in attaining comprehension and competency in learning skills.

### V T 50  CURRENT TOPICS IN VETERINARY TECHNOLOGY .5 Unit

Advisory: Pass/No Pass.  
May be taken six times for credit.  
One hour lecture-laboratory.  
A series of three-hour lectures, lecture-demonstrations, multimedia presentations, live demonstrations or hands-on workshops presented once monthly (three times per quarter) by the instructor, professionals in veterinary medicine or the animal health-related fields.  
A variety of content is presented in order to provide current topical and practical information in the animal care field.  
Guest presenters will include veterinarians, specialists, veterinary technicians, animal handlers, administrative professionals and educators.  
All veterinary technology students are required to enroll each quarter, but the seminar may be taken by any student for personal interest.  
Unregistered veterinary assistants, and other members of the veterinary paraprofessional staff may also enroll.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>V T 52A</td>
<td>VETERINARY ASSISTING I</td>
<td>5 Units</td>
</tr>
</tbody>
</table>
|             | Five hours lecture.  
|             | First in a two-course series in the theory and practice of Veterinary Assisting focusing on the knowledge, skills, and attitudes required for competent paraprofessional support to the Veterinarian (DVM) and the Registered Veterinary Technician (RVT).  
|             | You will prepare for an exciting new career as a veterinary assistant by learning the essential knowledge and hands-on skills of the Veterinary Assistant.  
|             | Emphasis is on basic clinical skills and common procedures; administration of medication, animal grooming, instrument cleaning and care; surgical preparation and operating room assisting; patient recordkeeping and client communication.  
|             | The course is entirely on-line and may be taken as a stand-alone class or may be combined with V T 52B and a Clinical Preceptorship (V T 87A & B) to earn a Veterinary Assisting Program Certificate of Completion. |

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<tr>
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<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>V T 52B</td>
<td>VETERINARY ASSISTING II</td>
<td>5 Units</td>
</tr>
</tbody>
</table>
|             | Five hours lecture.  
|             | Second in a two-course series in the theory and practice of Veterinary Assisting focusing on the knowledge, skills, and attitudes required for competent paraprofessional support to the Veterinarian (DVM) and the Registered Veterinary Technician (RVT).  
|             | You will prepare for an exciting new career as a veterinary assistant by learning the essential knowledge and hands-on skills of the Veterinary Assistant.  
|             | Emphasis is on basic clinical skills and common procedures; administration of medication, animal grooming, instrument cleaning and care; surgical preparation and operating room assisting; patient recordkeeping and client communication.  
|             | The course is entirely on-line and may be taken as a stand-alone class or may be combined with V T 52A and a Clinical Preceptorship (V T 87A & B) to earn a Veterinary Assisting Program Certificate of Completion. |

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<tr>
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<tbody>
<tr>
<td>V T 53A</td>
<td>MEDICAL TERMINOLOGY</td>
<td>1 Unit</td>
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</tbody>
</table>
|             | Two hours lecture-laboratory.  
|             | A guided self-study of medical terminology as a fundamental communication skill.  
|             | Basic word parts and rules of word construction.  
|             | A review of common medical terms pertaining to the different body systems, with emphasis on those terms peculiar to veterinary medicine. |

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<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>V T 53B</td>
<td>MEDICAL CALCULATIONS</td>
<td>1 Unit</td>
</tr>
</tbody>
</table>
|             | Two hours lecture-laboratory.  
|             | Applied mathematics as a fundamental communication and technical skill.  
|             | Review of calculations involving fractions, decimals, ratios and proportions, unit conversions, and algebraic equations.  
|             | Clinical medical calculations utilized in preparation and administration of drugs, dosage determinations, intravenous fluid infusion, and prescription dispensing. |

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<tr>
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<tbody>
<tr>
<td>V T 53C</td>
<td>INTRODUCTION TO LARGE ANIMAL CARE</td>
<td>1 Unit</td>
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</tbody>
</table>
|             | Two hours lecture-laboratory, one hour case study.  
|             | Introduction to principles of husbandry and medical care of common domestic large animal species.  
|             | Breed identification; housing and restraint; nutrition and feeding; common infectious diseases and vaccinations; equine physical exam and common lameness; equine colic; common large animal clinical procedures. |

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<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>V T 55</td>
<td>ANIMAL MANAGEMENT &amp; CLINICAL SKILLS I</td>
<td>4 Units</td>
</tr>
</tbody>
</table>
|             | Three hours lecture, three hours laboratory, one hour internet research, one hour open skills laboratory.  
|             | Intended for the pre-clinical training of veterinary technology students and unregistered veterinary assistants.  
|             | Orientation to the Veterinary Technology Program.  
|             | Occupational health and safety.  
|             | Animal handling and restraint.  
|             | Administration of medication.  
|             | Assessing dehydration and basic fluid administration.  
|             | Introduction to anesthetic equipment, procedures and recovery.  
|             | Principles of aseptic technique, sanitation, disinfection and sterilization.  
|             | Principles of surgical nursing and instrumentation.  
|             | Euthanasia, grief and pet loss support.  
|             | Principles of animal behavior, socialization, basic obedience and common behavior problems.  
|             | Wound healing and suture material. |

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.  
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www.foothill.edu
V T 56 ANIMAL MANAGEMENT & CLINICAL SKILLS II 4 Units

Three hours lecture, three hours laboratory, one hour internet research, one hour open skills laboratory.

Intended for the pre-clinical training of veterinary technology students and unregistered veterinary assistants. Survey of basic responsibilities and technical duties of veterinary technicians. Clinical nutrition and feeding of the dog and cat. Reproductive anatomy and physiology of the dog and cat including common reproductive disorders. Companion animal grooming. First aid. Instruction and practical experience in the basic principles and techniques of radiography, electrocardiography; venipuncture and blood collection technique; insertion and troubleshooting of intravenous catheters. Patient examination and assessment. Bandaging, casting, and splinting. Hands-on experience performing and assisting with routine clinical diagnostic and therapeutic procedures, including dermatologic and ophthalmologic procedures, blood and urine collection and other routine veterinary clinical procedures.

V T 60 VETERINARY OFFICE PRACTICE 2 Units

Two hours lecture, one hour case study.


V T 61 ANIMAL DISEASES 5 Units

Four hours lecture, two hours lecture-laboratory, one hour internet research.

Advanced study of the common diseases of domestic animals with emphasis on the dog and cat for the veterinary technician student. Practical medical microbiology, clinical immunology. Mechanisms of disease; the host-parasite relationship and adaptive and maladaptive responses of the host. Etiology, pathogenesis, clinical signs and clinical management of selected immunological, viral, bacterial, fungal, and parasitic diseases. Principles of vaccination, disease prevention, and zoonosis. Diagnostic techniques, including gross and microscopic identification of common veterinary pathogens.

V T 70 FUNDAMENTALS OF VETERINARY DIAGNOSTIC IMAGING 4 Units

Three hours lecture, three hours laboratory, one hour internet research.

Introduction to the principles of veterinary radiography for veterinary technician students, including radiographic terminology, physics of X-ray production and interaction with matter, occupational safety and radiation protection, radiographic exposure factors and patient positioning required for production of diagnostic films, processing of radiographic film. Discussion of equipment materials and special radiographic studies common in veterinary practice. Introduction to state-of-the-art radiographic imaging, ultrasound and nuclear medicine.

V T 72 PRINCIPLES OF VETERINARY DENTISTRY 2 Units

One hour lecture, two hours lecture-laboratory.

Basic principles of veterinary dentistry for the veterinary technology student. Includes dental anatomy, physiology, pathophysiology, charting and instrumentation. Techniques of routine prophylaxis, discussion of periodontal disease, modes of therapy and prevention. Introduction to common dental disorders, endodontic technique, simple extractions and dental radiography. Course includes hands-on laboratory sessions using veterinary dental equipment and models, and includes the care and use of common instruments and equipment, the routine prophylaxis and dental assisting.

V T 75A ANIMAL CARE SKILLS 1 Unit

Three hours laboratory.

Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology program. Opportunity to participate in the health care team involved in the care, management and husbandry of program livestock, companion animals and laboratory animals. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties.

V T 75B ANIMAL CARE SKILLS 1 Unit

Three hours laboratory.

Continuation of VT 75A. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities will expand to include medical record keeping.

V T 75C ANIMAL CARE SKILLS .5 Unit

One and one-half hours lecture.

Continuation of VT 75B. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75D ANIMAL CARE SKILLS 1 Unit

Three hours laboratory.

Continuation of VT 75C. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75E ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75D. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75F ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75E. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75G ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75F. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75H ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75G. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75I ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75H. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75J ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75I. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75K ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75J. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75L ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75K. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75M ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75L. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75N ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75M. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

V T 75O ANIMAL CARE SKILLS .5 Unit

One hour open skills laboratory.

Continuation of VT 75N. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. Responsibilities include medical record keeping, inventory control, and care of clinical equipment. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties Level of responsibility increases as the student prepares to enter the second year of the program and take over lead nurse responsibilities.

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V T 86 LABORATORY ANIMAL TECHNOLOGY  4 Units
Four hours lecture, one hour case study.
An orientation to the use of animals in research and to the role of the veterinary technician and the biotechnologist in a biomedical research animal facility. Regulations affecting the use of animals in research will be discussed. Proper methods of restraint, daily care, feeding and nutrition, nursing techniques, and housing needs for the common species of laboratory animals (i.e. rodents, rabbits, nonhuman primates, reptiles and amphibians, etc.). Introduction to diagnostic and therapeutic techniques and common diseases of laboratory animals. Appropriate anesthesiology, analgesia and euthanasia methods will be discussed.

V T 86L LABORATORY ANIMAL METHODS  1 Unit
One hour lecture-laboratory, two hours laboratory.
An orientation to basic laboratory animal procedures used in a research animal facility for the veterinary technology student, biotechnology student or those already employed in the biomedical field. Animal identification. Appropriate and humane protocols, methods and procedures commonly encountered in biomedical facilities will be discussed, demonstrated and performed. Animal handling and restraint for commonly encountered laboratory animals (mice, rats, rabbits, guinea pigs). Introduction to basic husbandry practices and breeding procedures used to maintain rodent colonies. Diagnostic sampling techniques and methods of administration of medication. Routine hematology, clinical chemistry, and immunoassay techniques. Students will be required to participate in several mandatory field trips to local biotechnology institutions during regular school hours.

V T 87A ADVANCED ANIMAL CARE SKILLS  1 Unit
Three hours laboratory.
Practical application of animal care skills and principles of animal care and management, integrating advanced techniques and knowledge gained through classroom instruction. Opportunity to participate in the health care team in a supervisory role with increased organizational responsibility. Emphasis on instruction of first-year students in basic principles of facilities management and maintenance care of resident animals.

V T 87B ADVANCED ANIMAL CARE SKILLS  1 Unit
Three hours laboratory.
Continuation of V T 87A. Continuing instruction of first-year students in basic principles of facilities management and maintenance care of resident animals. Supervisory responsibilities will expand to include the formulation of work schedules, performing diagnostic and therapeutic procedures on resident animals, and performance evaluations of first-year students. The student will be involved in open lab sessions training first-year students in technical procedures.

V T 87C ADVANCED ANIMAL CARE SKILLS  1 Unit
Three hours laboratory.
Continuation of V T 87B. Continuing instruction of first-year students in basic principles of facilities management and maintenance care of resident animals. Supervisory responsibilities include the formulation of work schedules, performing diagnostic and therapeutic procedures on resident animals, performance evaluations of first-year students, and staffing open lab sessions. Facilitate transition of primary animal care responsibility to first-year students.

V T 88A CLINICAL PRECEPTORSHIP I  1.5 Units
Corequisite: V T 52A.
Seven and one-half hours clinic.
Formal, structured off-campus clinical experience in licensed veterinary facilities, which serve as a means of instructing the student in practical, hands-on, clinical skills in all aspects of veterinary assisting. The student is under the direct supervision of one or more licensed veterinarians and/or credentialed veterinary technicians. The site of the preceptorship is approved by the veterinary technology program in consultation with the student and the veterinary professionals. Opportunity for learning and practical application of the knowledge, skills and attitudes required of a veterinary assistant. Exposure to varied methodologies and practice philosophies in a variety of clinical settings. Emphasis is on the role of the veterinary assistant in the veterinary health care team.

V T 88B CLINICAL PRECEPTORSHIP II  1.5 Units
Corequisite: V T 52B.
Seven and one-half hours clinic.
Formal, structured off-campus clinical experience in licensed veterinary facilities, which serve as a means of instructing the student in practical, hands-on, clinical skills in all aspects of veterinary assisting. The student is under the direct supervision of one or more licensed veterinarians and/or credentialed veterinary technicians. The site of the preceptorship is approved by the veterinary technology program in consultation with the student and the veterinary professionals. Opportunity for learning and practical application of the knowledge, skills and attitudes required of a veterinary assistant. Exposure to varied methodologies and practice philosophies in a variety of clinical settings. Emphasis is on the role of the veterinary assistant in the veterinary health care team.

V T 89 CLINICAL INTERNSHIP  3 Units
Fifteen hours laboratory.
Off-campus clinical experience for Veterinary Technology Program students in veterinary facilities. Opportunity for practical application of knowledge, skills and abilities acquired in program course work. Opportunity for additional hands-on training in all aspects of veterinary technology. Exposure to varied methodologies and practice philosophies in a variety of clinical settings.

V T 91 CLINICAL INTERNSHIP  3 Units
Fifteen hours laboratory.
Off-campus clinical experience for Veterinary Technology Program students in veterinary facilities. Opportunity for practical application of knowledge, skills and abilities acquired in program course work. Opportunity for additional hands-on training in all aspects of veterinary technology. Exposure to varied methodologies and practice philosophies in a variety of clinical settings.

V T 92 CLINICAL INTERNSHIP  3 Units
Fifteen hours laboratory.
Off-campus clinical experience for Veterinary Technology Program students in veterinary facilities. Opportunity for practical application of knowledge, skills and abilities acquired in program course work. Opportunity for additional hands-on training in all aspects of veterinary technology. Exposure to varied methodologies and practice philosophies in a variety of clinical settings.

V T 93 CLINICAL INTERNSHIP  4 Units
Twenty hours laboratory.
Off-campus clinical experience for Veterinary Technology Program students in veterinary facilities. Opportunity for practical application of knowledge, skills and abilities acquired in program course work. Opportunity for additional hands-on training in all aspects of veterinary technology. Exposure to varied methodologies and practice philosophies in a variety of clinical settings.

V T 95 VETERINARY TECHNICIAN PROFICIENCY  2 Units
Two hours lecture, one hour group study.
Review of pertinent subject matter in preparation for the California State Registered Veterinary Technician Examination.

V T 95L VETERINARY TECHNICIAN PROFICIENCY LABORATORY  1 Unit
Three hours laboratory.
Review of pertinent subject matter in preparation for the California State Registered Veterinary Technician Examination. Provides opportunity for developing proficiency in practical clinical skills required of the graduate veterinary technician.

V T 190 DIRECTED STUDY  .5 Unit
V T 190X  1 Unit
V T 190Y  1.5 Units
V T 190Z  1.5 Units
Advisory: Pass/No Pass.
Any combination of V T 190, 190X & 190Z may be taken a maximum of six times for credit.
One half hour lecture, one and one-half hour laboratory for each half unit of credit. For students in the Veterinary Technology Program who desire or require additional help in attaining comprehension and proficiency in learning skills and/or additional practical training to achieve technical skills competency.
### VIDEO ARTS

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VART 86 INTRODUCTION TO DIGITAL SOUND, VIDEO & ANIMATION
4 Units
Formerly: F TV 86
Prerequisite: Not open to students with credit in MUS 86 or GID 80.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Basic instruction using the computer for emerging media technologies; digital sound, video editing, and animation. Emphasis on time based media and creative problem solving.

VART 87 MOTION GRAPHICS
4 Units
Advisory: GID 80 or MUS 86 or VART 86.
Two hours lecture, two hours lecture-laboratory, three hours laboratory.
Basic instruction using the computer for motion graphic design and composite digital video production. Emphasis on time based media and its application to creative problem solving and communication solutions.

VART 89 INTRODUCTION TO THE MAYA 3D SYSTEM
4 Units
Prerequisite: Must demonstrate computer proficiency.
Two hours lecture, three hours lecture-laboratory, two hours laboratory.
An introduction to the Maya 3D authoring program and the concepts of 3D digital art production. An overview of each aspect of 3D production including modeling, texturing, lighting, animation, and rendering.

VART 150 VIDEO ARTS LABORATORY
.5 Unit
VART 150X
1 Unit
VART 150Y
1.5 Units
VART 150Z
2 Units
Any combination of VART 150, 150X, 150Y & 150Z may be taken for a maximum of 12 units.
One and one-half hours laboratory for each half unit of credit.
Supervised activities in Video Arts, related to skills and materials of Film and Video production and study in Video Arts courses in which students are currently enrolled.

WMN 5 INTRODUCTION TO WOMEN’S STUDIES
4 Units
Four hours lecture.
Examination and development of the goals, major documents, History, achievements, and evolution of the current women’s movement in light of the impact and contributions of women, in comparison to those of men, of various cultural and ethnic heritage. Includes appraisal of the effects of multiculturalism and the women’s movement on politics, jobs, education, science, family structure, and the arts.

WMN 11 WOMEN IN GLOBAL PERSPECTIVE
4 Units
Four hours lecture.
Examination and analysis of the historical roles of women globally and the impact and influence of these historical developments on modern society internationally and domestically.

WMN 15 A HISTORY OF WOMEN IN ART
4 Units
Advisory: Not open to students with credit in ART 2E.
Four hours lecture.
An examination of the works and lives of women artists from the early Middle Ages to the 20th Century.

WMN 21 PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES
4 Units
Advisory: Not open to students with credit in PSYC 21 or SOC 21.
Four hours lecture.
Survey of gender issues based upon psychological and sociological theories and research. Examination of sex role stereotyping and differences. Developmental considerations.
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“At Foothill College, the top-notch education from quality teachers was the first stop for countless students who transferred to Stanford University, state universities, Ivy League schools and other great institutions.

“From the time you exit the freeway and drive up to the school, you can’t help but notice how beautiful and inviting it is. It was the same on campus. I met students from down the street and all over the world, and from countless races and backgrounds, all of whom strived to be special. Some of those students are still my best friends.

“Foothill College also gave me an opportunity to begin my college basketball career and start developing valuable skills as a sports writer on the school’s newspaper. Foothill College was my strong foundation and helped me rise to where I am today, and I will never forget where I come from.”

—Award-winning sports journalist

Marc J. Spears earned the Foothill College Associate in Arts Degree in General Studies/Social Science as well as a bachelor’s degree in print journalism from San Jose State University. The NBA writer and columnist for The Denver Post, he is the West region director for the National Association of Black Journalists Sports Task Force.

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Vice Presidents

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Emeritus Faculty

Classified Staff
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The district is governed by a five-member board of trustees elected to staggered four-year terms by voters within the district. A student trustee from each college serves as representative to the board. Student trustees are appointed annually by the associated students group of each college.

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Vice Chancellor, Technology
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Dean, International Education
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Dean, Middlefield & Evening Campuses
Denise Swett, Ph.D.

Dean, Student Affairs & Activities
Donald Dorsey, M.A.

Dean, Student Support Programs & Services
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Director, EOPS
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Director, Financial Aid
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Director, Foothill College Bookstore
Romeo Paule, B.S.

Director, Marketing & Communications
Kurt Hueg, B.A.

Director, Operations Manager, Facilities
Open
Faculty & Administrators


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Austin, Kathleen Ramos (1990) Director, Diagnostic Medical Sonography Program ARDMS, AARD, CRT, San Jose Hospital, San Jose; B.S., University of Phoenix

Baker, Judith (2007) Dean, Foothill Global Access B.A., College of William & Mary; M.S.W., Virginia Commonwealth University; Ph.D., University of Texas at Austin


Bergmann, Janis (1998) Theatre Arts B.A., University of California, Los Angeles; M.A., San Jose State University

Berry, John (1985) Computer Information Systems B.A., University of California, Santa Cruz; M.A., Colorado State University

Bertani, Laurie (2001) Counseling B.A., Sonoma State University; M.A., San Jose State University

Bissell, Jeffrey (2006) Physical Education/Aquatics Coach B.A., M.A., California State University, Chico

Boyett, Douglas (1990) Physical Education, Football Coach A.A., Foothill College; B.A., California State University, Chico; M.A., St. Mary’s College

Brown, Carolyn (1996) Graphic & Interactive Design B.S., University of Pennsylvania; M.A., San Francisco State University


Carlson, Martha (2006) Coordinator, FHIDA Internship Programs B.S., University of Iowa; M.A., California State University, East Bay

Carr, Janice (1989) Mathematics A.B., Colby College; A.M.T., Harvard University

Carter, Celeste V. (1996) Biology B.S., University of California, Berkeley; M.S., Harvard; Ph.D., Pennsylvania State School of Medicine

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Foothill College 2007-2008 www.foothill.edu
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<tr>
<th>Name</th>
<th>Degree Details</th>
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<tr>
<td>Martinez, Ricardo A.</td>
<td>B.A., California State University, Chico; M.S., Ph.D., University of California, San Diego; M.S., Ph.D., University of Arizona; M.A., San Francisco State University</td>
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<tr>
<td>MacDougall, Maureen</td>
<td>B.S., University of Michigan; M.S., Stanford University</td>
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<td>Marasco, David</td>
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<td>McLeod, Bruce</td>
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<td>Meade, LaDawn</td>
<td>B.A., University of Utah; M.S., California State University, Sacramento</td>
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<td>Melia, Martin</td>
<td>B.A., University of California, Berkeley; M.A., San Francisco State University</td>
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<td>Menager-Beeley, Rosemarie</td>
<td>B.A., University of California, Berkeley; M.A., California State University, Los Angeles; Ed.D., University of Southern California</td>
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<td>Menendez, Natalia A.</td>
<td>B.A., M.A., University of California, Berkeley</td>
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<td>Miller, Lawrence S.</td>
<td>Respiratory Therapy</td>
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<td>Mistry, Richard</td>
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<td>Miner, Judy C.</td>
<td>President</td>
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<td>Mummert, John</td>
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<td>Norick, Amanda</td>
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<td>Oburn, Ronald K.</td>
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<td>Ong, Teresa</td>
<td>Adaptive Learning, Learning Disabilities Specialist</td>
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<td>Orell, Eloise J.</td>
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<td>O’Neal, Verley A.</td>
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<td>Paye, Anne M.</td>
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<td>Ragay, Joseph</td>
<td>Art, Graphic &amp; Interactive Design, Theatre Arts</td>
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<td>Schultheis, Lisa</td>
<td>Biology</td>
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</table>
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McLanathan, Mary C. (1959) Division Dean, Biological & Health Sciences

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Mofeat, Glenn P. (1964) Biology
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Mortarotti, John L. (1963) Division Dean, Fine Arts
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<td>History</td>
<td>Berkeley; M.A., San Jose State University</td>
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<td>History</td>
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<td>Physical Education, Intercollegiate</td>
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<td>Psychology</td>
<td>B.A., San Jose State University; Ph.D., Pacific Graduate School of Psychology</td>
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<td>Journalism</td>
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<td>German</td>
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<td>Physical Education</td>
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<td>Seldbach, Eugene</td>
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<td>Sutherland, Richard</td>
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<td>B.A., Michigan State University; M.S., University of Michigan; M.S., University of California, Berkeley</td>
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<td>History, Political Science</td>
<td>B.Ed., Illinois State University; M.A., University of Michigan</td>
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<td>Dean, Instruction &amp; Educational Resources</td>
<td>B.A., Stanford University; M.S., University of Wisconsin; Ph.D., University of California, Berkeley</td>
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<td>Psychological Services</td>
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<td>Business, Data Processing</td>
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<td>Business, Marketing</td>
<td>A.A., University of Minnesota; B.S., San Diego State University; M.B.A., Golden Gate University</td>
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<td>Creative Writing, English</td>
<td>B.A., Bard College, New York; M.A., University of Connecticut</td>
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<td>Adaptive Learning</td>
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<td>Watts, June</td>
<td>Acquisitions Librarian</td>
<td>B.A., University of California; A.A., Holy Names College, Spokane; M.A., University of Denver</td>
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<td>Whearty, Jim M.</td>
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<td>Wirth, Jean</td>
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Aced, Shawna
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<table>
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<th>Name</th>
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<td>Smith, Karen</td>
<td>Library Technician, Senior</td>
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<td>Sparacino, Jenny</td>
<td>Admissions &amp; Records Assistant</td>
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<td>Stenger, Annette</td>
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<td>President’s Office</td>
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<td>Sum, Steven</td>
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<td>Tanniru, Murthy</td>
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<td>Tapia, Ariel</td>
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<td>Terranova, Cheryl</td>
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<td>Thomas, Lori</td>
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<td>Marketing &amp; Communications</td>
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<td>Thoppay, Mallika</td>
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<td>Thornton, Kay</td>
<td>Theater &amp; Fine Arts Facilities Coordinator</td>
<td>Fine Arts &amp; Communication Division</td>
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<td>Tran, David</td>
<td>Workstation Support Technician II</td>
<td>Educational Technology Services</td>
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<td>Tran, Long</td>
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<td>Program Coordinator I</td>
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<td>Tran, Phuong</td>
<td>Administrative Assistant I</td>
<td>Middlefield Campus</td>
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<td>Turmelle, Art</td>
<td>Program Coordinator, Senior</td>
<td>International &amp; LINC Programs</td>
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<td>Turner, Kathleen</td>
<td>Testing Technician</td>
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<td>Vandercook, John</td>
<td>Technology Services Supervisor</td>
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<td>Vela, Israel</td>
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<td>Instructional Associate</td>
<td>Computers, &amp; Information Systems Division</td>
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<td>Gardener</td>
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<td>Physical Science, Mathematics &amp; Engineering Division</td>
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<td>Wall, Peter</td>
<td>Graphic Design Technician</td>
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<td>Administrative Assistant I</td>
<td>Biological &amp; Health Sciences Division</td>
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<td>Program Coordinator II</td>
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<td>Witkop, Inna</td>
<td>Financial Aid Outreach Assistant</td>
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<td>Wong, Laureen</td>
<td>Campus Budget/Enrollment Analyst</td>
<td>Educational Resources &amp; Instruction</td>
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<td>Wood, Pat</td>
<td>Cashier, Senior</td>
<td>Admissions &amp; Records</td>
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<td>Laboratory Technician</td>
<td>Physical Sciences, Mathematics &amp; Engineering Division</td>
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<td>Zuniga, Paul</td>
<td>Instructional Associate</td>
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Area & Middlefield Campus Maps

Directions to Foothill College Main Campus

Directions to Foothill College Middlefield Campus

Foothill College Campus Map, Key & Legend
Campus Information

Parking Regulations

The Foothill-De Anza District Police Department supervises on-campus parking and traffic. The following rules and regulations apply to all students, staff and public. You can find a complete list of college parking and traffic regulations in the Admissions & Records Office and District Police Department, 2103.

- The speed limit in campus parking areas and access ways is 5 miles per hour. The speed limit of 20 miles per hour is posted on all roadways and is strictly enforced.
- Except in areas with 30-minute parking meters, all vehicles must display a valid parking permit to park on campus. Failure to display a permit will result in a citation.
- Parking permits are required seven days a week from 7 a.m. to 10 p.m. This requirement is enforced.
- Parking permits are not required at Middlefield Campus.
- Day-use parking permits are $2 and are valid for the date of purchase only. Purchase from red and yellow permit dispensers in all student parking lots. Purchase quarterly or annual permits from the Admissions & Records Office.
- All vehicles must properly display a valid parking permit. Students are authorized to park in marked stalls in student lots only. Students may not park in stalls marked for disabled, staff, vendors, official vehicles or park in roadways, dirt areas or along parking lot curbing. People with disabilities are required to display state-issued identification on their vehicles or, in the event of temporary disabilities, obtain permits from the Disability Resource Center, Room 5801; or call (650) 949-7017.
- Staff parking permits are required for all staff spaces. Staff permits are issued by the District Police Department.
- Special permits will be issued only by the District Police Department. The permit must be displayed on the dashboard or hang on the interior mirror so it can be read from the outside. Special permits are valid only when used within the areas and dates designated on the permit.
- Motor vehicles, bicycles and skateboards are not permitted on the interior portion of campus.
- Don’t invite theft by leaving articles of value in your automobile. Anything left in a car should be locked in the trunk. Lock your vehicle.

- All vehicles remaining for more than 20 minutes in areas posted for 20-minute maximum will be cited.
- Parking or loitering on campus after 11 p.m. and/or after special activities is prohibited.
- Alcoholic beverages are prohibited on campus.

For more information, call the District Police Department at (650) 949-7313.
Directions to Foothill College
Main Campus

Foothill College is located in Los Altos Hills, 10 minutes south of Stanford University and 20 minutes north of San Jose. From Interstate 280, exit El Monte Road and travel west. Visitors must purchase a required campus parking permit for $2. Quarterly and annual permits can be purchased in the Admissions Office. Public bus routes #23 and #52 serve the college approximately every 30 minutes.

Directions to Foothill College
Middlefield Campus

The Foothill College Middlefield Campus, 4000 Middlefield Road, is located on Middlefield Road between Charleston and San Antonio roads in Palo Alto.

To travel from the Main Campus to the Middlefield Campus: Drive east on El Monte Road. Turn left on Foothill Expressway. Turn right on San Antonio Road. Turn left on Middlefield Road. Parking at Middlefield Campus is free. The trip is five miles.
To accommodate the opening of new buildings and construction projects, expect some offices and services to be relocated on campus.

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<td>Accessible Elevators are located at Krause Center for Innovation, Library, Pool Deck, Campus Center and Lower Campus Complex.</td>
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