

2005 – 2006 COURSE CATALOG

A New Chapter in Foothill College History



Campus Center Fall 2006



FOOTHILL COLLEGE

www.foothill.edu

Upgrade. Advance.

2005-2006 Academic Calendar

Fall Quarter 2005

June 20	Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
Sept. 26	Instruction Begins
Nov. 11	Veterans Day; Campus Closed
Nov. 24-25	Thanksgiving Recess; Campus Closed
Dec. 13-16	Final Examinations
Dec. 19-Jan. 6	Winter Recess

Winter Quarter 2006

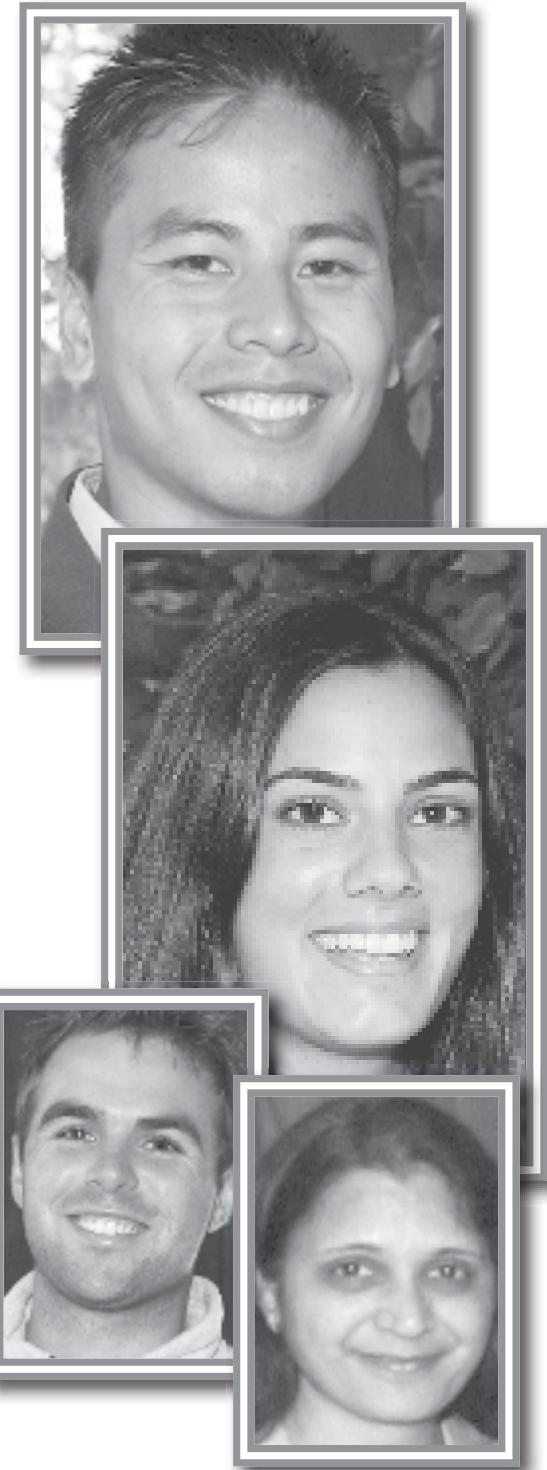
Oct. 20	Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
Jan. 9	Instruction Begins
Jan. 16	Martin Luther King Jr.'s Birthday; Campus Closed
Feb. 17	Lincoln's Birthday; Campus Closed
Feb. 20	Washington's Birthday; Campus Closed
March 28-31	Final Examinations
April 3-7	Spring Recess

Spring Quarter 2006

Jan. 20	Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
April 10	Instruction Begins
May 29	Memorial Day; Campus Closed
June 27-30	Final Examinations
June 30	Commencement Ceremony

Summer Session 2006*

July 3-Aug. 11	Six-Week Session
July 3-Aug. 25	Eight-Week Session



*The Summer Session 2006 calendar is tentative and subject to a final collective bargaining agreement.

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



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

Every effort has been made to ensure the accuracy of this catalog. Be aware, however, that laws, rules and policies may have changed since this publication was printed. Changes may result from California Legislature statutes or rules and policies adopted by the Foothill-De Anza Community College District Board of Trustees, the chancellor or institutional designee.



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*W*elcome to Foothill College! We—the faculty, staff and administration—are committed to continuing the tradition of excellence and innovation that has brought us national acclaim. When you enroll at Foothill College, you enroll in a campus community that puts student performance first. We are the number one community college in California in the percentage of students who successfully complete courses eligible for university transfer, and we are the number one college in the percentage of students who successfully complete basic skills courses. Our student retention rate is 92 percent, and 84 percent of our students pass their courses with a grade of C or higher. We truly believe that our students' performance is a measure of our success.

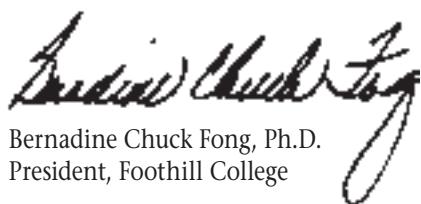
This year will be our busiest period of construction on campus, in our Measure E building and renovation program. In early 2005, we began the construction of our two largest projects: a new campus center and demolition of the existing structure; and construction of the new lower campus facilities that will house student services, life sciences and a studio theater. Both of these projects will add tremendous value to our campus life and instructional program. The Campus Center is scheduled to open in Fall 2006 and the Lower Campus Complex in Spring 2007. To continue providing outstanding student services during this time, campus center offices and student services have been conveniently relocated. As major construction moves forward, students will continue to find a campus environment that is learning-focused, student-centered and committed to student success.

Foothill College has maintained a reputation for excellence by responding to the changing demands of students and the world around us. We review and update our course offerings on an ongoing basis to ensure our programs are current and viable. When a new technology emerges—from wireless technology to bioinformatics—we incorporate it into the Foothill curriculum to serve the current educational needs of our students. We offer eight online associate degrees, and the training Silicon Valley employers require to stay competitive in a global economy.

As a Foothill College student, you will find your avenues to success are wide open. We have a dynamic faculty and staff, and offer more than 30 career programs and 70 majors. You can earn an associate degree or transfer to a four-year university, or both. We also offer post-baccalaureate certificates for students who want to maintain academic currency in a particular field. Foothill's transfer students include Regents Scholars, the University of California's highest honor for transfer students. Foothill students transfer to all of the major campuses of the University of California and California State University systems. Students from the Foothill Honors Institute have demonstrated success in transferring to UCLA and UC Berkeley's prestigious Haas School of Business. In addition, we encourage our students to seek acceptance at private colleges and universities where financial aid is readily available.

Graduates of our health care programs place in the 90th percentile in their state or national registry examinations. Students who complete our intensive career programs place in the top 5 percent on nationwide skill examinations. Employers also value the education offered at Foothill. Students who earn Foothill associate degrees have increased their earning power by 40 percent just three short years after graduation.

We are here to help you achieve your goals—to put the keys to your success in your hands. We wish you the very best in your endeavors.

A handwritten signature in black ink, appearing to read "Bernadine Chuck Fong".

Bernadine Chuck Fong, Ph.D.
President, Foothill College



Important Campus Phone Numbers

Area Code 650 unless otherwise noted

Emergency 911	Lost & Found 949-7313
Adaptive Learning 949-7332	Marketing & Communications 949-7362
Admissions & Records 949-7325	NASA/Ames Internship Program Office 604-5560
Assessment 949-7650	Prerequisites/ Matriculation Office 949-7512
Bookstore 949-7305	Register by Phone 917-0509 or (408) 777-9394
Career Center 949-7229	Student Activities 949-7282
Counseling Appointments 949-7423	Theater Box Office 949-7360
CTIS Computer Lab 949-7303	Transcript Information 949-7002
Disability Resource Center 949-7017	Transfer Center 949-7235
District Police (Non-emergency) 949-7313	TDD for Hearing Impaired 948-6025
English Writing Center 949-7290	Tutorial Center 949-7447
ESL Writing Center 949-7923	Veterans Office 949-7001
Evening/Weekend Programs 949-7711	Volunteer Center 949-7634
Extended Opportunity Program & Services (EOPS) 949-7207	■ ■ ■
Financial Aid 949-7245	Middlefield Campus 949-6950
Grades by Phone 917-0509 or (408) 777-9394	Admissions 949-6980
Health Services 949-7243	Bookstore 949-6975
Honors Institute 949-7638	Computer Courses & Labs 949-6957
IDEA Lab 949-7137	Counseling 949-6959
Language Arts Lab 949-7452	Student Services & Student Center 949-6958
Library 949-7392	

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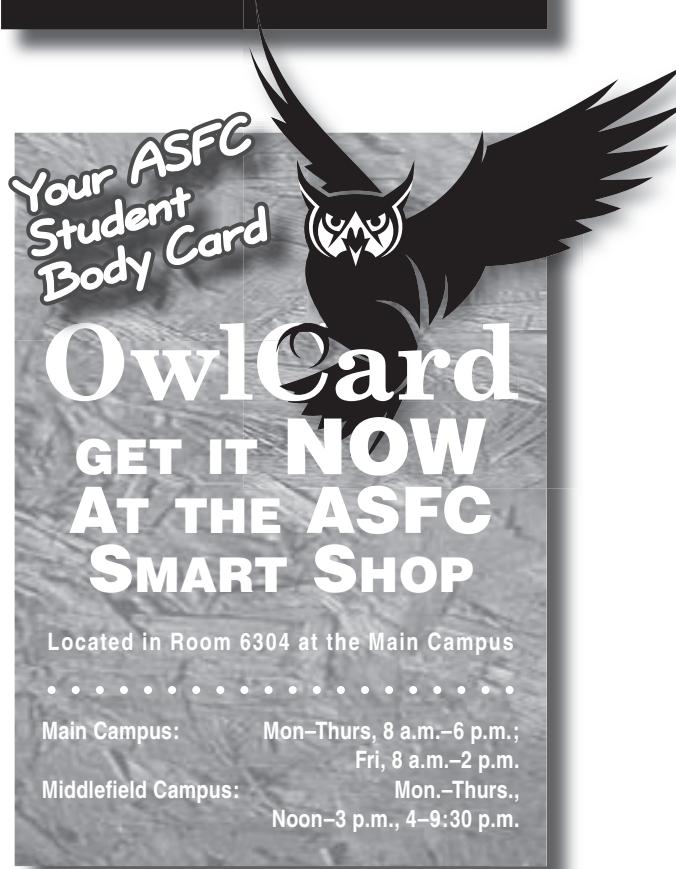
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Foothill College Bookstore



"I'm glad that I started my education at Foothill College. My Foothill experience helped me discover that education is a major tool that will help me excel as a scholar, and as an individual. I feel confident and well prepared to advance and face future challenges."

A recipient of the prestigious UC Regents and Chancellor's scholarships, Yulia Khouri, A.S., transferred from Foothill College to UC Berkeley to major in linguistics and minor in music.

College Profile

Foothill-De Anza Community College District Mission

Foothill College Vision, Values & Purpose

Our History

Foothill: An Outstanding Community College

Committed to Our Community

We Celebrate Diversity

Accreditation

"The Most Beautiful Community College"

Measure E Campus Improvements

Campus Highlights

Public Events & Services

Facility Rental

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

Vision Statement

- The college's values are honesty, integrity, trust, openness, and forgiveness.
- The college's purpose is to provide educational opportunity for all with innovation and distinction.
- The college's mission is to promote student learning through lower-division academic instruction, career preparation, and continuous work force development 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.

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.

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; and
- 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

*College Roundtable adopted 2/24/99;
College Roundtable revised 5/6/05.*





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, financial aid, job counseling and assessment.
- 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.

Measure E Campus Improvements

Measure E is a 10-year plan 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. Funding for Measure 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 Measure E projects at Foothill College, access www.foothill.edu.

Campus Highlights

- All-Weather Track
- Bamboo Garden & Azumaya Meditation Pavilion
- 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
- Math Center
- Middlefield Campus in Palo Alto
- Multimedia Arts IDEA Computer Lab
- Olympic-Size Swimming Pool
- Robert C. Smithwick Theater
- 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.

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.

Facility Rental

Foothill classroom, conference, physical education and theater 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 & Human Performance/Athletics Division, Room 2713, or call (650) 949-7380.

To schedule an event in the Robert C. Smithwick Theater or Appreciation Hall, call the Fine Arts & Communications Facilities Office at (650) 949-7252. To schedule an event at the Middlefield Campus facility, call (650) 949-6953.

“Clubs, organizations, sports or extra curricular 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 Opening 2006

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 Opening 2006

During Summer Session 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 in 2006.

Offices and services previously located in the Campus Center have been relocated during construction. The new locations are listed below. Stay informed about office moves, construction updates and the online Campus Center being developed to assist students during the construction transition by accessing www.foothill.edu.

For a complete listing of campus services and locations, review the campus map and directory on pages 263-265.

- Arcade & Recreation Area (Room 5912)
- ASFC Paint Room Graphics (Room 6304)
- ASFC Smart Shop/OwlCard (Room 6304)
- Associated Students of Foothill College (ASFC) Student Government (Room 6302)
- Bookstore (Room 3526)
- Dean of Student Affairs & Activities (Room 6201)
- Dining Room (Room 3525)
- District Police (D100)
- Food Services (Catering vendors throughout campus)
- Health Services (Room 5914)
- Intramural Recreation Program (Room 5912)
- Middle College Program (Room 5911)
- Psychological Services (Room 5933)
- *The Sentinel* Newspaper (Room 5921)
- Service Learning Volunteer Center (Room 5912)
- Student Accounts (Room 6201)
- Student Activities Office (Room 6204)

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 & Communications 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:

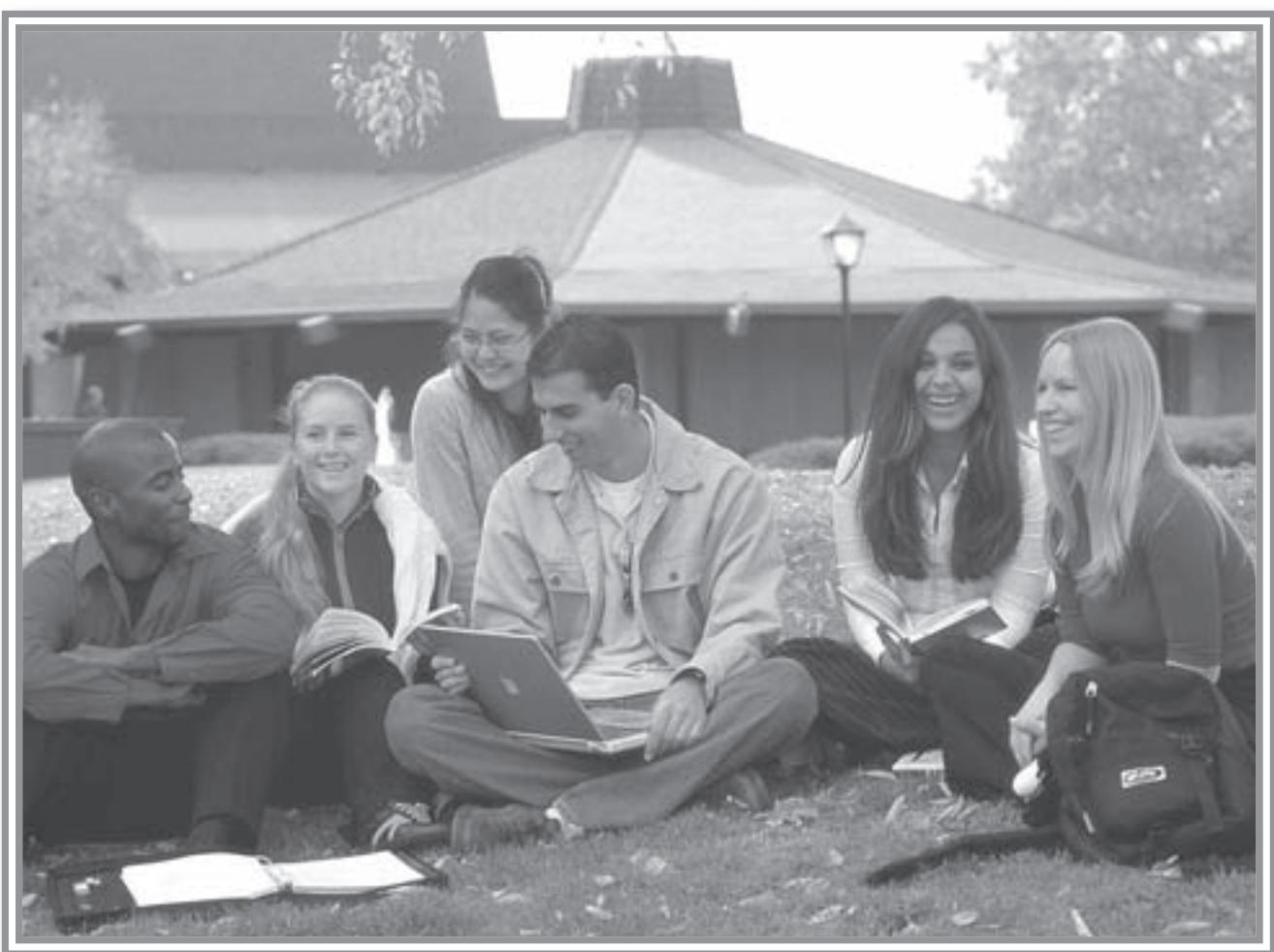
- Administration
- Advocacy
- Broadcast communication
- Budget development
- Decision making
- Event coordination
- Goals and objectives
- Governance
- Group dynamics
- Leadership theory and styles
- Marketing
- Organizational development
- Parliamentary procedure
- Planning
- Policy development and 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 6402.



"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 thousands of other Californians with solid academics and enabled us to round out our college experience by pursuing leadership activities, athletics, performing arts and many other programs."

*—Richard L. Henning, Ed.D., Founder,
Foothill-De Anza Celebrity Forum I, II & III*

Student Services & Programs

Student Development Services

Admission & Assessment Services

Assessment Sessions

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 assessment 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.

Assessment 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 1930 or access www.foothill.edu/transfer.

Admission & Assessment Services

Student Classifications

To understand Foothill admission and assessment 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.

Assessment Sessions

Assessment is required for students enrolling in CHEM 1A, 25 and 30A; ENGL 1A or 110; ESL (except 134, 136, 137); and any mathematics course except MATH 250. For a recorded assessment session schedule, call the Assessment Hotline at (650) 949-7650.

We offer assessment sessions on specific dates before each quarter's registration period. We also offer ability-to-benefit assessment for students lacking a high school diploma and requesting federal financial aid. Call (650) 949-7230.

Assessment sessions are offered in both paper and computer form. Paper sessions are timed and require no appointment.

If you have a physical disability, or qualify for extended-time testing, call the Disability Resource Center, (650) 949-7017 (voice) or (650) 948-6025 (TDD) to make special assessment arrangements.

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

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

Campus Support Centers

Business & Social Sciences Computer Lab

If you are enrolled in Business & Social Sciences Division courses, you can use the BSS Computer Lab in Room 3101 to complete assignments. For more information, access bss.foothill.fhda.edu.

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 computer 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.

Math Center

If you need help with math homework, we encourage you to visit our Math Center, where faculty and staff will spend time with you in a supportive environment. The center is located in Room 5960 and is open Monday through Friday. For more 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.

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 5999 for assistance in a variety of subject areas. The Tutorial Center is home to drop-in tutoring, appointment tutoring, EOPS tutoring and ESL Pronunciation Clinic. For hours, directions, online 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 6305 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 6305 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, STD- and HIV-testing are available on a sliding-scale fee basis. For more information, visit Room 5941 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, Room 5933. For psychological services appointments or information, visit the office 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 6204.

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 assessment 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 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 Warren Hurd, 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 1930. 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 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 email XuerebCarmela@fhda.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 1927.

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
Email: profwd@fhda.edu;
Web Sites: SiliconValleyTraining.fhda.edu
www.deanzacact.org

Campus Abroad Program

Study in France, England, Italy, Spain, Costa Rica, Ireland 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 4057. For more information, call (650) 949-7232.

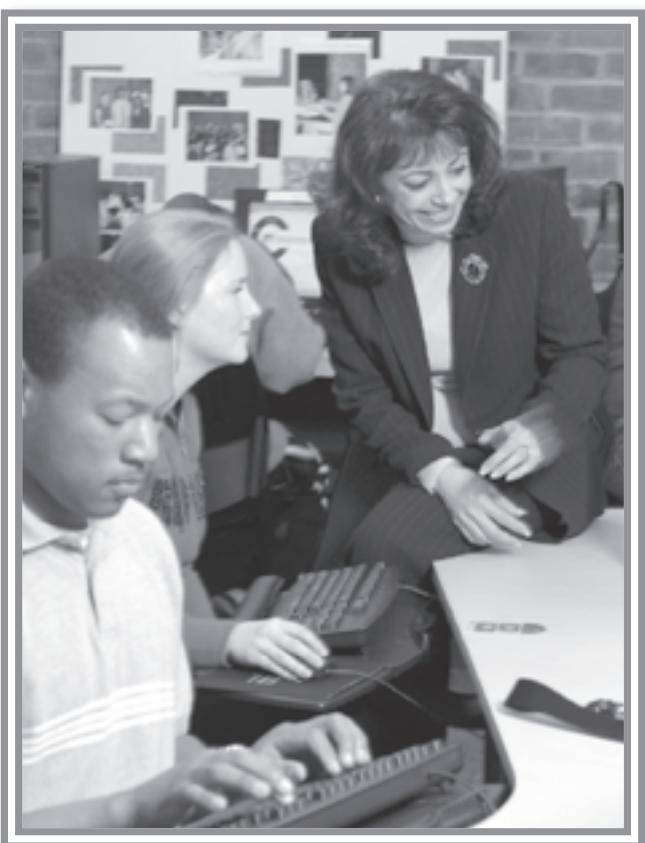
Evening College

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 email 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 regular 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.

NASA/Ames Internship Program

A Foothill-De Anza NASA Ames Internship offers the student an outstanding opportunity to gain valuable hands-on experience while being paid. An internship is a unique professional development opportunity for university transfer students as well as students who are preparing to enter the work force.

Foothill offers one-year NASA internships in many majors, including engineering, physical and biological science, computer science, business, social sciences, accounting, office administration and bioinformatics.

As an intern at the NASA Ames Research Center in Mountain View, you'll work 20 hours per week during the academic year and 40 hours per week during the summer. U.S. citizenship is required for positions at NASA. Additional internships are available at local companies. For more information, access nasa.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 general-purpose classrooms. The Middlefield Campus is also home to the Foothill REACH, Paramedic, EMT and Pharmacy Technician 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 assessment services. We can process all admissions and registration transactions at either our Middlefield Campus or Main Campus. However, official transcripts are only available at the Main Campus and www.foothill.edu.

For Middlefield Campus/Off-Campus programs general 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 4223. 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.

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 Forum 6B. 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 good-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

2005-2006 Cost of Attendance

Examples of Additional Costs

Refunds & Repayments

Financial Aid

Financial Aid Distribution

Federal Aid

State Aid

Other Aid

Financial Planning & College Costs



Student Fees

If you're a California resident, you'll pay \$17 per unit*. The non-resident tuition fee is \$101 per unit, and the foreign student tuition fee is \$112 per unit.

Foothill charges additional fees for Campus Center use (mandatory; however this fee is suspended through Summer Session 2006), 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.

2005-2006 Cost of Attendance†

California Resident (9 months)	Reside At Home	Reside Away From Home	Less Than Half Time
Fees	\$818§	\$818	\$285
Books / Supplies	\$1,287	\$1,287	\$1,287
Room / Board	\$3,403	\$8,473	N/A
Transportation	\$846	\$846	\$846
Misc. / Personal	\$2,241	\$2,241	N/A
Total	\$8,595	\$13,665	\$2,418

§Based on Institutional Average 15 units x \$17 per unit = \$255 + \$10 Health Fee + \$7.50 Campus Center Use Fee* x 3 Quarters = \$818.

Non Resident (9 months)	At Foothill College
Tuition (per unit)	\$ 100
Fees	5,318
Books / Supplies	1,287
Room / Board	8,473
Transportation	846
Misc. / Personal	2,241
Total	\$18,165

†Fees are subject to change.

*\$7.50 Campus Center Use Fee is suspended through Summer Session 2006.

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.

Financial Aid Distribution

Foothill College prioritizes financial aid distribution as follows:

1. Students who meet the priority deadline.
2. Students with the most need, based on low-income information.
3. Returning students who demonstrate a continued financial need.
4. First-time students.
5. Students accepted into a technical/vocational training program and are therefore unable to work.
6. Students with expenses related to special training programs.
7. Students who have completed fewer than 120 quarter units.
8. All other students who demonstrate financial need.

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.
- 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.

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 \$8,000 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. Undergraduate Perkins Loan borrowing cannot exceed \$20,000.

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 \$2,625 per year. As a second-year undergraduate, you can borrow up to \$3,500 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

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. The variable interest rate is capped at 9 percent and adjusted annually.

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 California resident, and
- not have a bachelor's or professional degree (except Cal Grant T), and
- file a completed FAFSA and Cal Grant GPA Verification Form by the March 2, 2006 deadline.

There are seven Cal Grant awards: Cal Grant A Entitlement and Competitive awards; Cal Grant B Entitlement and Competitive awards; California Community College Transfer Entitlement award (either a Cal Grant A or B); Cal Grant C; and Cal Grant T.

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. Entitlement Award—Every graduating high school senior who has a grade point average of at least 3.0, 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 3.0 grade point average may compete for this award.*

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 2005, although strongly encouraged to apply by March 2, have a second deadline of September 2, 2006.

California Community College Transfer Entitlement Award: Is either a Cal Grant A or B. High school seniors who graduate after June 30, 2005 attend a California community college and then transfer to a qualifying baccalaureate degree-granting 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.

Cal Grant T: Helps cover one year of tuition and fees at a program of professional teaching preparation in California in exchange for teaching service. Deadline date to apply and have completed FAFSA information (calculated expected family contribution) available is June 1.

**Selection is based on a composite score that takes into consideration family income, parents' educational level, grade point average, time out of high school, whether or not students are from a single-parent household and their high school's performance standards and resources.*

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.

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:

Number in Household (including yourself)	Total Family Income 2005 (adjusted gross income and/or untaxed income)
1	\$13,965
2	\$18,735
3	\$23,505
4	\$28,275

Add \$4,770 for each additional dependent

- 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 must complete an application form at the Financial Aid Office and provide required documentation. If you or your family are receiving TANF/CalWORKS, SSI or General Assistance/General Relief, bring a copy of your most recent warrant check to the Financial Aid Office. If you think you are eligible because you meet the income standards and are a dependent student, bring a copy of your parents' income-tax return for the previous year. If you are an independent student, bring a copy of your own income-tax return.
- 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.



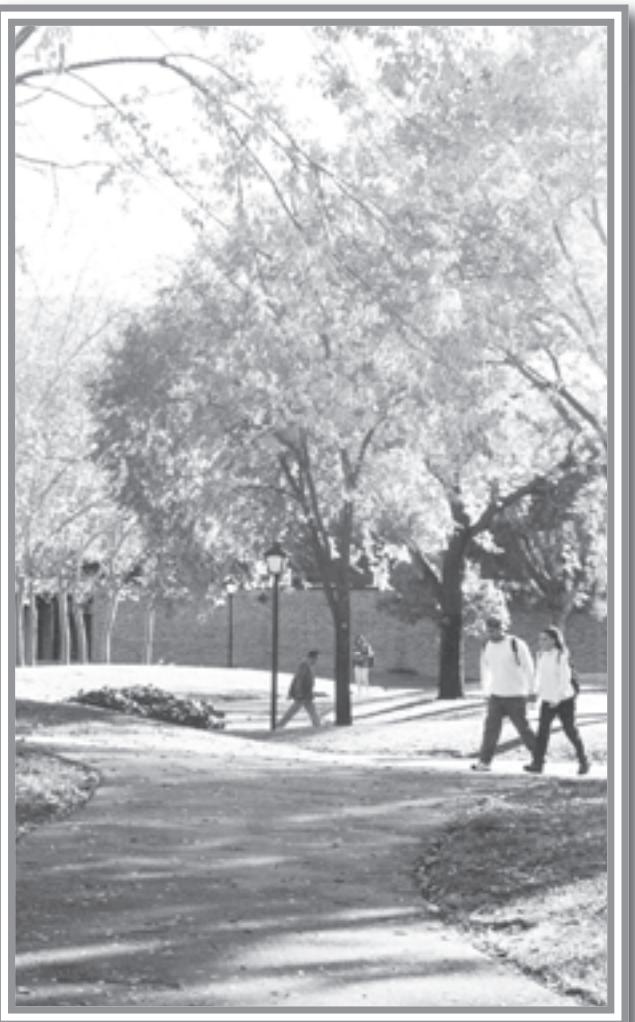
Textbook Assistance

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:

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



Academic Divisions

Adaptive Learning & Disabled 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 & Communications
(650) 949-7262

Instructional Services & Libraries
(650) 949-7390

Language Arts
(650) 949-7250

Physical Education,
Human Performance & Athletics
(650) 949-7742

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

Programs

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

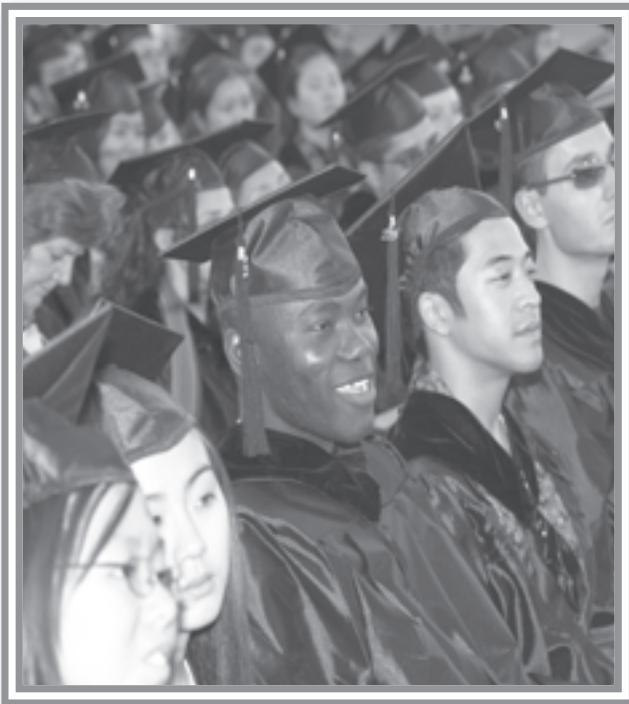
Programs

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 pages 52 and 57. 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 58. CSU General Education requirements are listed on page 59.



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 Student Development Center, Room 1930, 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 Technology
- 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
- Graphic & Interactive Design
- Help Desk/Tech Support
- Informatics
- Interactive & Multimedia Technologies
- Internet Technology
- Music Technology
- Paramedic
- Pharmacy Technology
- Photography & Digital Imaging
- Primary Care Associate
- Radiation Therapy Technology
- 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) 431-5853
- **Elevator Construction:** San Francisco, (415) 431-9016
- **Ironworking:** Fresno, (559) 497-1295
- **Plumbing/Pipefitting:** San Jose, (408) 453-6330; Sacramento, (916) 383-1102
- **Refrigeration/Heating & Air Conditioning:** San Jose, (408) 453-6330; Sacramento, (916) 383-1102

- **Sheet Metal:** San Jose, (408) 263-1712; Castroville, (831) 633-6151; San Mateo, (650) 652-9672; San Francisco, (415) 431-1676; San Leandro, (510) 483-9035; Petaluma, (707) 762-0925
- **Sound & Communication:** San Jose, (408) 453-3101; San Francisco, (415) 431-5853

Call the numbers at left and above for more information about apprenticeship programs. For more information about additional career programs, see 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 Student Development Center in Room 1930. The quarterly *Schedule of Classes* lists each program alphabetically, the courses offered each quarter and the current contact phone number. Curriculum sheets are also available online at www.foothill.edu.

Program	Completion Award	Legend
Accounting	AA, CC, CCC, UT	AA Complete this program in approximately two years and earn the Associate in Arts Degree. <i>See a counselor and refer to page 57 for requirements.</i>
Adaptive Fitness	AA, CCC	AS Complete this program in approximately two years and earn the Associate in Science Degree. <i>See a counselor and refer to page 57 for requirements.</i>
American Studies	AA, UT	CA Complete this program and earn the Certificate of Achievement. <i>See division office for requirements.</i>
Anthropology	AA, UT	CC Complete this program and earn the Certificate of Completion. <i>See division office for requirements.</i>
Apprenticeship Programs		CCC Complete this program and earn the Career Certificate. <i>See division office for requirements.</i>
Electrician/Sound & Communication	CC	CP Complete this program and earn the Certificate of Proficiency. <i>See division office for requirements.</i>
Elevator Construction	CC	SC Complete this program and earn the Skill Certificate. <i>See division office for requirements.</i>
Ironworking	CC	UT This program includes curriculum that may be transferable to a four-year university. <i>See a counselor and refer to pages 58-59 for requirements.</i>
Plumbing/Pipefitting	CC	Review official curriculum sheets for career opportunities and course listings. Curriculum sheets are available in the division office, Student Development Center (Room 1930) and at www.foothill.edu .
Refrigeration/Heating & Air Conditioning	CC	
Sheet Metal	CC	
Art—General	AA, CP, UT	
Art—History	AA, CC, CP, UT	
Art—Studio	AA, CP, UT	
Bioinformatics	AS, CCC	
Biological Sciences	AS, UT	
Pre-Dentistry	AS, UT	
Pre-Medicine	AS, UT	
Pre-Pharmacy	AS, UT	
Pre-Veterinary	AS, UT	
Biotechnology	AS, CCC	
Business Administration	AA, CA, UT	
Small Business	CC, CA	
Business International Studies	AA, CA, CP, UT	

Degrees & Certificates Offered at Foothill College

Program	Completion Award	Legend
Business Technology: Office Administration	AS, CA, CCC	
Accounting/Spreadsheets	CC	
Business Communication	CA	
Database/SQL	CC	
Help Desk	AS, CCC	
Internet/Electronic Commerce	CC	
Office Manager—General Office	CCC	
Office Manager—Office Computing	CCC	
Word Processing/Desktop Publishing	CC	
Chemistry	AS, UT	
Child Development	AA, CCC, UT	
Assistant	CC	
Associate Teacher	CCC	
Master Teacher	CCC	
Site Supervisor	CCC	
Communication Arts & New Media	AA, CCC	
Computer Science	AS, UT	
Computer Software Development	AS, CCC	
UNIX System Operations & Administration	CCC	
Object-Oriented Software Using C++	CCC	
Object-Oriented Software Using Java	CCC	
Creative Writing	AA, UT	
Database Management	AS, CCC, SC	
Oracle Database Administration	CCC, SC	
Oracle Database Developer	CCC, SC	
Dental Assisting	AS, CCC	
Dental Hygiene	AS	
Diagnostic Medical Sonography	AS, CC	
Drama & The Foothill Theatre Conservatory	AA, UT	
Economics	AS, UT	
Emergency Medical Technician	CC	
Engineering	AS, UT	
English	AA, UT	
Enterprise Networking	AS, SC, UT	
A+ Preparation	SC	
Cisco CCNA Academy Certificate	SC	
Cisco CCNP Academy Certificate	SC	



Degrees & Certificates Offered at Foothill College

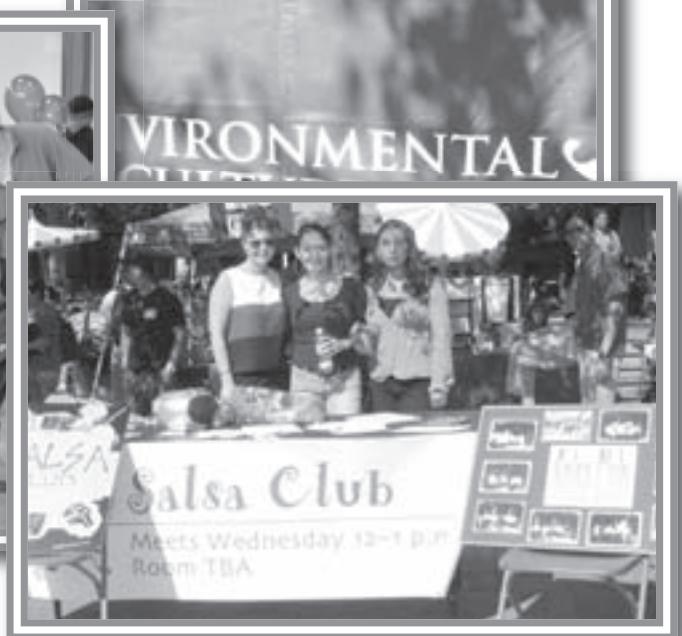
Program	Completion Award	Legend
MCSA Preparation Certificate	SC	AA Complete this program in approximately two years and earn the Associate in Arts Degree. <i>See a counselor and refer to page 57 for requirements.</i>
MCSE Preparation Certificate	SC	
Network Security	SC	
Wireless Networking	SC	
Environmental Horticulture & Design	AS, CCC, SC, UT	
French	AA, UT	AS Complete this program in approximately two years and earn the Associate in Science Degree. <i>See a counselor and refer to page 57 for requirements.</i>
General Studies		CA Complete this program and earn the Certificate of Achievement. <i>See division office for requirements.</i>
Humanities	AA, UT	CC Complete this program and earn the Certificate of Completion. <i>See division office for requirements.</i>
Science	AS, UT	CCC Complete this program and earn the Career Certificate. <i>See division office for requirements.</i>
Social Science	AS, UT	CP Complete this program and earn the Certificate of Proficiency. <i>See division office for requirements.</i>
Geographic Information Systems (GIS)	CA, UT	SC Complete this program and earn the Skill Certificate. <i>See division office for requirements.</i>
Geography	AA, CA, CCC, UT	UT This program includes curriculum that may be transferable to a four-year university. <i>See a counselor and refer to pages 58-59 for requirements.</i>
Geology	AS, UT	
German	CP, UT	
Graphic Design & Visual Communication	AA, CCC, SC, UT	
History	AA, UT	
Individual Studies: Transfer Preparation	AA, AS	
Interactive & Multimedia Technologies	AS, CCC, SC	
Internet Technology	AS, CCC, SC	
Electronic Commerce	CCC, SC	
Web Programming	CCC	
Web Administration	CCC	
Web Publishing	CCC	
Japanese	AA, CA, CP, UT	
Law & Society (Pre-Law)	AA, UT	
Leadership & Community Service	CC	
Linguistics	AA, CC, UT	
Mathematics	AS, UT	
Music/General	AA, CCC, SC, UT	
Music Technology	AA, CCC, SC	
Paramedic	AS, CCC	
Personal Trainer	CCC	
Pharmacy Technology	AS, CCC	
Philosophy	AA, UT	
Photography & Digital Imaging	AA, CC, CCC, SC, UT	
Physical Education/Human Performance	AA, UT	



Degrees & Certificates Offered at Foothill College

Program	Completion Award	Legend
Athletic Injury Care	AS, UT	AA Complete this program in approximately two years and earn the Associate in Arts Degree. <i>See a counselor and refer to page 57 for requirements.</i>
Physics	AS, UT	AS Complete this program in approximately two years and earn the Associate in Science Degree. <i>See a counselor and refer to page 57 for requirements.</i>
Political Science	AA, UT	
Primary Care Associate	AS, CCC	
Psychology	AA, UT	
Radiation Therapy Technology	AS	CA Complete this program and earn the Certificate of Achievement. <i>See division office for requirements.</i>
Radio Broadcasting	AA, CCC, SC, UT	CC Complete this program and earn the Certificate of Completion. <i>See division office for requirements.</i>
Radiologic Technology	AS	CCC Complete this program and earn the Career Certificate. <i>See division office for requirements.</i>
Real Estate	AA, CCC	CP Complete this program and earn the Certificate of Proficiency. <i>See division office for requirements.</i>
Respiratory Therapy	AS	SC Complete this program and earn the Skill Certificate. <i>See division office for requirements.</i>
Sociology	AA, CA, CP, UT	UT This program includes curriculum that may be transferable to a four-year university. <i>See a counselor and refer to pages 58-59 for requirements.</i>
Spanish	AA, CA, CP, UT	
Special Education	AA, CCC	
Speech Communication	AA, CA, CC, UT	
Theatre Technology	AA, CCC, SC, UT	
Travel Careers	AA, CCC, CP	
Veterinary Technology	AS, UT	
Women's Studies	AA, UT	Review official curriculum sheets for career opportunities and course listings. Curriculum sheets are available in the division office, Student Development Center (Room 1930) 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 1927.

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 the 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 1927) 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 Classification

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 1927.

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 Student Development Center, Room 1930, 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 assessment 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. To plan up to one year of classes, consult the Foothill Web site. 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

Please 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 Student Development Center, Room 1930, 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, Room 1930, Student Development Center, 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 GPA 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. A student cannot drop after the eighth week. For Summer Session class drop dates, consult the most 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 6201.

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 presently 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 has the authority to change or cancel courses and programs as circumstances require.

Class Preparation/Progress

After prior notification, an instructor may drop students demonstrating 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
- 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 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. Students 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. The student 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

The Foothill College grading scale includes the following:

- A Excellent
- B Good
- C Satisfactory
- D Less than satisfactory
- F Failing
- I Incomplete; cannot be issued prior to the end of the eighth week. If not made up within the time limit that is assigned by the instructor, not to exceed one year, the I grade may change to F.
- W Withdrawal; issued if you withdraw from class between the fifth and eighth weeks. Prior to the end of the fourth week, no mark will appear on your record. After the eighth week, a grade symbol other than a W must be used and will likely be an F.
- IP In Progress; for classes that extend over more than one quarter.
- P Pass; at least a C or better in a class offered on a graded/non-graded basis.
- NP No Pass; less than a C in a class offered on a graded/non-graded basis.
- RD Report Delayed; assigned by the registrar.

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; honors courses from academic divisions; free 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 Math Center. Lists of courses with unusual start times are available in these facilities.

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 students must petition for graduation by May 1.

Student Access to Education Records

The Family Education Rights and Privacy Act 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, (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. Directory information may be released unless you notify the records officer otherwise in writing 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 below. 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 6201. 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.



Americans With Disabilities Act (ADA)

The Foothill-De Anza Community College District Board of Trustees uphold that, for persons with disabilities, improving the access to educational and employment opportunities must be a priority. The board directs the Foothill College administration to take the necessary actions to implement the requirements of the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act.

The Foothill-De Anza Community College District shall not discriminate against a qualified individual with a disability because of the disability with regard to employment or with regard to the provision of district programs, services and activities.

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 Warren Hurd, Foothill College ADA/504 Coordinator and dean of Faculty & Staff, in Room 1905, or call (650) 949-7090.

Non-Discrimination

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 6201; 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 6201; or call (650) 949-7241.

To report discrimination on the basis of disability, consult Warren Hurd, 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 and Denial of Services on the Basis of Race, Color, National Origin, Sex and 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 berrera 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 Descripción y Rechazo de Servicios en Base a la Raza, Color, Nacionalidad de Origen, Sexo e Impedimento (Registro Federal; Vol. 22, No. 56)*.

Reglamento de la No-Descripción

Foothill College no discrimina en contra de ninguna persona en la prohibición de algún programa o servicio basado en la raza, color, nacionalidad u origen étnico, 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 6201, (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 6201, (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, Faculty & Staff Dean Warren Hurd is the institution's designated Title IX coordinator. To contact Warren Hurd, call (650) 949-7090; email hurdwarren@foothill.edu; or visit Room 1905.

Mutual Respect

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 6202.

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 6201. 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

In order 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 5941 or call (650) 949-7243.

Due Process Requirements 14th Amendment

1. The U.S. Supreme Court maintains that a fundamental requirement of due process is the opportunity to be heard.
2. When conflict arises, due process ordinarily requires:
 - a. Notification of the charges.
 - b. A hearing.
 - c. An opportunity to defend with knowledge of adverse evidence.
 - d. The names of adverse witnesses.
 - e. That substantial evidence support any disciplinary action taken.
3. Before judicial review, administrative remedies must be exhausted.
4. Various forms of activities carried on in schools and colleges have compelled courts to define rights and responsibilities of students, faculty and administrators. Courts acknowledge that:
 - a. School administrators must be free to invoke fair and reasonable procedures for operation of the school.
 - b. Schools do not stand in strict *in loco parentis* with their students.
 - c. Each student has rights and responsibilities vis-à-vis other students.
 - d. In contemporary society, the loss of educational opportunities is not taken lightly.
5. Schools are viewed as a “market place of ideas,” but no individual has a constitutional right to prevent a school from carrying out its assigned functions. The school must, however, show that a behavior is disruptive before it can sustain disciplinary action—the school cannot arbitrarily prohibit conduct.

“Where there is no finding that engaging in the forbidden conduct would materially and substantially interfere with the requirements of appropriate discipline in the operation of a school, the prohibition cannot be sustained. Constitutional guarantees do not immunize one for conduct which disrupts class work or invades the rights of others.”

—*Tinker vs. Des Moines Independent School District, USSC, 1969, 21 LIED 2d 73*

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 D100; or call (650) 949-7313.

Student Conduct, Discipline & Due Process

At Foothill, we believe in personal honor based on integrity, common sense and respect for civil and moral law. We expect our students will conduct themselves honorably at all times, both on and off campus. Any breach of student conduct may be reported to the dean of Student Affairs & Activities. The official policies of the Foothill-De Anza Community College District Board of Trustees stipulate that Foothill students have certain rights and privileges, along with certain obligations. To correct unacceptable student conduct, we believe disciplinary proceedings are secondary to counseling and admonition. In the exceptional circumstances when discipline is deemed necessary, the college will observe due process to protect the student from unfair and arbitrary imposition of serious penalties. Various college agencies facilitate due process. Examples are the Academic Council, Multicultural Relations Office and student rights advocate of the Associated Students of Foothill College. We are legally required to advise all Foothill students that the following categories of behavior constitute sufficient cause for disciplinary action:

Foothill and De Anza colleges consider the following principles essential to their educational mission and community life:

1. Mutual respect between students, faculty and staff;
2. Pursuit of studies with honesty and integrity;
3. Respect for college and personal property; and
4. Compliance with all rules and regulations.

These standards are intended to promote responsible student conduct and fair play.

Students shall be subject to college discipline (as outlined in *Administrative Procedure 5520: Student Due Process and Discipline*) for any of the following misconduct that occurs at

any time on campus or at any off-campus facility, including Internet-based courses held on the Worldwide Web, or college-approved or sponsored functions:

1. Academic dishonesty, such as cheating, plagiarism (including plagiarism included in student publications), or knowingly furnishing false information to the colleges, or district;
2. Unauthorized preparation, giving, selling, transfer, distribution or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative procedure;
3. Dishonesty, forgery, alteration, or misuse of college or district documents, records or identification;
4. Obstruction or disruption of teaching, research, administration, disciplinary procedures, or other college or district activities, including its public service functions, or of other authorized activities;
5. Physical or verbal abuse of any person or conduct which threatens or endangers the health or safety of any such person;
6. Committing or attempting to commit robbery or extortion;
7. Causing or attempting to cause damage to college or district property or to private property on campus;
8. Stealing or attempting to steal college or district property or private property on campus, or knowingly receiving stolen college or district property or private property on campus;
9. Willful misconduct that results in injury or death to a student or to college or district personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the college or district or on the campus;
10. Unauthorized entry to or use of college or district facilities;
11. Violation of college or district policies or of campus regulations including those concerning registration of student organizations, use of college or district facilities, or the time, place and manner of public expression;
12. Unlawful possession, use, sale, offer to sell, or furnishing or being under the influence of, any controlled substance as listed in California Health and Safety Code Section 11053 et seq., an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5;

13. Use, possession, or sale of any firearm, knife, explosive, or other object that could be classified as a weapon (unless the student has specific authorization from a college or district official);
14. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of authority, or persistent abuse of college or district personnel;
15. Gambling on college or district property;
16. Hazing or any act that injures, degrades, or disgraces or tends to injure, degrade, or disgrace any fellow student or other persons;
17. Disorderly conduct or lewd, indecent or obscene behavior conduct or expression on district-owned or controlled property, or at district sponsored or supervised functions;
18. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or district;
19. Theft or abuse of computer time, including but not limited to:
 - a. unauthorized entry into a file, to use, read or change the contents or for any other purpose;
 - b. unauthorized transfer of a file;
 - c. unauthorized use of another person's identification and password;
 - d. use of computing facilities to interfere with the work of another student, faculty member or college official;
 - e. use of computing facilities to send obscene or abusive messages, or to defame or intentionally harm other persons;
 - f. use of computing facilities to interfere with normal operation of the college computing system;
 - g. use of computing facilities for student's personal benefit;
20. Committing sexual harassment as defined by law or as set forth in Board Policy 4640;
21. Engaging in harassing or discriminatory behavior based on race, sex, religion, age, national origin, disability, or any other status protected by law;
22. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on college or district premises, or the violation of lawful college or district regulations, or the substantial disruption of the orderly operation of the college or district; and/or
23. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.

For more information, review *FHDA Board Policy 5500: Student Rights & Responsibilities* at www.fhda.edu.

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 statutes. 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 email 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, or 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, email 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 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). March 1, 2000.

Students can obtain a copy of *Student Conduct & Due Process* from the Student Affairs & Activities Office, Room 6201; (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:

Crime / Year	2004	2003	2002
Aggravated Assault	6	4	0
Arson	0	0	0
Burglary	8	11	32
Homicide	0	0	0
Larceny	40	50	82
Vehicle Theft	2	1	0
Rape	0	0	0
Robbery	1	0	0
Arrests / Year	2004	2003	2002
Alcohol Violations	0	1	0
Drug Violations	1	0	0
Warrants	0	0	4
Other	8	9	16

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 2001:

Students completing A.A./A.S./Certificate: 39.1 percent*

Students who transferred out: 24.8 percent*

Total completers/transfers: 63.9 percent*

*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.

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).

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.

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.



"At one time, my only life goal was to make lots of money, but in the course of my studies at Foothill College, I experienced an epiphany. Because of the superb instruction I received from the Foothill faculty, I decided that I wanted to become a college professor. I now feel that education is much more than just scholarship and academics. It's about validation and lifting the human spirit."

—Malcolm Douglas Harvey III, A.A., A.B., transferred from Foothill College to UC Berkeley to complete his bachelor's degree in sociology. He was the first undergraduate to become a teacher's assistant at UC Berkeley.

Requirements

Associate in Arts or 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

Requirements

Associate in Arts or Science Degree Graduation Requirements

Requirements for the Associate in Arts or Associate in Science degrees are listed on page 57 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 57-59. 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.

Students seeking an official general education certification for use by a reciprocity institution are encouraged to review their records with a counselor prior to submitting the *General Education Certification Request*. Students who have completed courses at other colleges and universities must have official transcripts on file prior to submitting the request. Requests for AA/AS general education certification may be submitted to the Evaluations Office, located in Room 1930.

Individual Studies-Transfer Preparation Degree

Foothill's associate degree for individual transfer preparation offers maximum flexibility for students who intend to transfer to a four-year college or university. Completion of this degree does not guarantee complete satisfaction of general education and lower-division major preparation for all majors. Review specific degree requirements on pages 77-78.

For more information, consult a Foothill College counselor. To schedule a counseling appointment, call (650) 949-7243.

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:

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

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 Center 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 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 59). IGETC Certification for CSU or UC requires full certification of Areas 1 through 5. (See chart on page 58). You may request certification by completing the official certification form or transcript request form available from the Admissions & Records or Evaluation offices in the Student Development Center, Room 1930.

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, located in the Student Development Center, Room 1930, has additional information regarding deadlines for TAAs.

The following institutions offer Transfer Admission Agreements for Foothill students:

■ Cornell University*	■ San Jose State University (CSU)
■ CSU Monterey Bay	■ Santa Clara University
■ CSU East Bay	■ UC Davis
■ Menlo College	■ UC Los Angeles†
■ Mills College	■ UC Riverside
■ National Hispanic University	■ UC San Diego
■ Notre Dame de Namur University	■ UC Santa Barbara
■ SCU Business School	■ UC Santa Cruz
■ San Francisco State University (CSU)	■ 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 Student Development Center, Room 1930.

Transfer Program for Minorities

Foothill's Minority Transfer Program helps minority students with transfer counseling, campus visits and participation on the Minority Talent Roster. For more information, call (650) 949-7235.

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 1930 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:

Application Accepted for	CSU	UC
Fall	Oct. 1–Nov. 30	Nov. 1–30
Winter	June 1–30	July 1–31
Spring	Aug. 1–31	Oct. 1–31
Summer	Feb. 1–28	

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

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 & Behavioral Sciences, Communication & Analytical Thinking, Multicultural Studies, and two courses in Lifelong Understanding from two different academic departments. Courses may only be used in one area.

AREA 1—HUMANITIES

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

Letters: CHIN 1–25B; CRWR 6, 39A, 39B, 40, 41A, 41B, 60; DRAM 2A, 2B, 2C; ENGL 5, 8, 11, 12, 14, 17, 18, 19, 22, 23, 25, 26, 31, 32, 42A, 42B, 42C, 43, 45, 46A, 46B, 46C, 48A, 48B, 48C; FREN 1–25B, 39; GERM 1–6, 13A–25B, 39; HIST 4A, 4B, 4C; HUMN 1A, 1B; JAPN 1–33, KORE 1–6; PHIL 2, 4, 8, 11, 20A, 22, 24, 25; SPAN 1–6, 10A, 13A–25.

AREA II—ENGLISH

ENGL 1A or ESL 26.

AREA III—NATURAL SCIENCES (WITH LABORATORY)

ASTR 10A with 10L or 10B with 10L; BIOL 1A, 1B, 1C, 10, 13, 14, 19 with 19L, 40A, 40B, 40C, 41; CHEM 1A, 10, 25, 30A; GEOG 1; GEOL 10, 11; 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, 8, 9, 10, 15, 16, 17A, 17B, 18, 19, 20, 23A, 30; POLI 1, 2, 3, 5, 7, 8, 9, 15; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 49, 55; SOC 1, 10, 11, 15, 19, 20, 21, 22, 23, 30, 40; SOSC 20; WMN 5, 11, 21.

AREA V—COMMUNICATION & ANALYTICAL THINKING

CIS 12A, 12C, 15A, 18, 24A, 25A, 68; ENGL 1B, 4; MATH 1A, 1B, 1C, 2A, 2B, 10, 11, 12, 22, 46, 49, 51; PHIL 1, 7, 8; SPCH 1A, 1B, 2, 3, 4, 12, 24, 30, 46, 55.

AREA VI—AMERICAN CULTURES & COMMUNITIES

ANTH 4; ART 2D; BIOL 14; DRAM 8; ENGL 5, 8, 12, 31, 41; HIST 9, 10; MUS 8; PHIL 22; POLI 7; PSYC 22; SOC 23; SOSC 20; SPCH 12; WMN 5, 11.

AREA VII—LIFELONG UNDERSTANDING

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

BIOL 19, 45; BUSI 10; CIS 2, 50A, 60; COIN 51; CNSL 1, 2, 80, 90; CRLP 55, 70; HLTH 21; HP 48; LIBR 1, 50, 61; SOC 19, 40; SOSC 20; SPCH 2, 10, 12; SPED 52; any Human Performance or ALAP physical activity course; ALAP 60, 60X, 61, 61X, 62, 62X, 63, 63X, 64, 64X, 65, 65X, 66, 66X, 70, 70X, 71, 71X, 80, 80X.

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. Graduation petitions must be filed in the quarter preceding the quarter in which you will complete the requirements for graduation.

The requirements for the A.A. or A.S. degree include completion of:

- a minimum of 90 units in prescribed courses;
- a minimum of 24 units taken at Foothill College;
- a grade point average of 2.0 or better in all college courses including Foothill;
- a major of at least 27 units in a curriculum approved by the Foothill College Curriculum Committee; and
- the seven general education requirements listed above.

Minimum proficiency: ENGL 1A or ESL 26 and MATH 103 or 105.*

Note: *Students intending to transfer to a four-year school must complete additional requirements for general education. Students are strongly encouraged to meet frequently with a counselor.*

*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. Student may apply only one English or ESL course below transferable freshman composition toward the associate degree.

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, one each Group A & B.*

Group A: English Composition, one course: 4–5 quarter units
ENGL 1A

Group B: Critical Thinking-English Composition, one course: 4–5 quarter units
ENGL 1B

Group C: Oral Communication
(CSU requirement only) one course: 4–5 quarter units
SPCH 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, 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, 14; DRAM 1, 2A, 2B, 2C, 8; ENGL 42A, 42B, 42C; MUS 1, 2A, 2B, 2C, 3A, 3B, 3C, 7, 7D, 7E, 8, 10, 27, 28; PHIL 11; PHOT 11; VART 1, 2A, 2B, 3; WMN 15

Humanities: CHIN 4, 5; ENGL 5, 6, 7, 8, 11, 12, 14, 17, 18, 19, 22, 25, 26, 31, 32, 41, 42A, 42B, 42C, 46A, 46B, 46C, 48A, 48B, 48C; FREN 4, 5, 39; GERM 4, 5; HIST 4A, 4B, 4C; HUMN 1A, 1B; JAPN 4, 5, 6, 33; KORE 4, 5, 6; PHIL 2, 4, 8, 20A, 20B, 22, 24, 25; SPAN 4, 5.

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; ECON 1A, 1B, 9, 12, 25; GEOG 2, 5, 9, 10; GERM 8; HIST 4A, 4B, 4C, 8, 9, 10, 15, 16, 17A, 17B, 18, 19, 20, 23A, 24, 30; POLI 1, 2, 3, 5, 7, 8, 9, 15, 24; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 49; SOC 1, 10, 11, 15, 20, 21, 23, 30, 40; SOSC 20; SPCH 10, 12; 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, 8A, 8B, 10, 12A, 12B, 12C, 25, 30A, 30B; GEOG 1; GEOL 10, 11; MET 10, 10L; OCEN 10; PHYS 2A, 2B, 2C, 4A, 4B, 4C, 4D, 6, 12

Biological Sciences: BIOL 1A, 1B, 1C, 1D, 10, 12, 13, 14, 15, 17, 40A, 40B, 40C, 41

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; FREN 2; GERM 2; HEBR 2; JAPN 2; KORE 2; SPAN 2, 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 2005 through Summer 2006.

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)
SPCH 1A, 1B, 2, 3 or 4
- A-2 Written Communication: ENGL 1A or ESL 26;
- A-3 Critical Thinking: PHIL 1 or ENGL 1B

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, 10L*, 10B, 10L*; CHEM 1A*, 1B*, 1C*, 8A*, 8B*, 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*, 4D*, 6, 12
- B-2 Life Science (Biological): BIOL 1A*, 1B*, 1C*, 1D, 10*, 12, 13*, 14*, 15*, 40A*, 40B*, 40C*, 41*, 45
- 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 101B is strongly recommended for students who completed PHIL 1 in Area A-3.

- C-1 Arts (Art, Dance, Music, Theater): ART 1, 2A, 2B, 2C, 2D, 2E, 3, 4A with 4AX, 4C with 4CX, 6, 11, 14, 45A with 45AX, 80; DRAM 1, 2A, 2B, 2C, 8, 20A with 20AL, 24, 30, 46; ENGL 42A**, 42B, 42C; MUS 1, 2A, 2B, 2C, 3A, 3B, 3C, 7, 7D, 7E, 8, 10, 27, 28; PHIL 11; PHOT 1 with 1LX, 10, 11; SPCH 24, 30; VART 1, 2C, 3; WMN 15
- C-2 Humanities (Literature, Philosophy, Foreign Languages): CHIN 1, 2, 3, 4, 5, 6; CRWR 6, 39A, 39B, 40, 41A, 41B, 60; DRAM 2A, 2B, 2C, 30; ENGL 1B, 5, 6, 7, 8, 11, 12, 14, 17, 18, 19, 22, 23, 25, 26, 30, 31, 32, 41, 42A, 42B, 42C, 46A, 46B, 46C, 48A, 48B, 48C, 97A, 97B, 97C, 97D, 97E, 97F, 97G, 97H; FREN 1, 2, 3, 4, 5, 6, 39; GERM 1, 2, 3, 4, 5, 6, 39; HEBR 1, 2, 3; HIST 4A, 4B, 4C; HUMN 1A, 1B; JAPN 1, 2, 3, 4, 5, 6, 33; KORE 1, 2, 3, 4, 5, 6; PHIL 2, 4, 8, 20A, 20B, 22, 24, 25; SPAN 1, 2, 3, 4, 5, 6; SPCH 12, 30, 46; VART 2A, 2B

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, 12, 25; GEOG 5; POLI 9
- D-3 Ethnic Studies:** (Some CSU campuses have specific courses to meet this requirement.) ANTH 2B, 4, 6, 11; ENGL 12, 31; HIST 10; MUS 8; PHIL 24, 25; POLI 7; PSYC 21, 22; SOC 21, 23; SOSC 20; SPCH 12; WMN 21
- D-4 Gender Studies:** ART 2E; ENGL 22; PSYC 21; SOC 21; SPCH 10; WMN 5, 11, 15, 21
- D-5 Geography:** GEOG 2, 5, 9, 10
- D-6 History:** ECON 12, HIST 4A, 4B, 4C, 8, 9, 10, 15, 16, 17A, 17B, 18, 19, 20, 23A, 24, 30; POLI 24
- D-7 Interdisciplinary Social or Behavioral Science:** CHLD 55; ENGL 26; HIST 18, 19; SOSC 20
- D-8 Political Science, Government & Legal Institutions:** ECON 9; GERM 8; HIST 30; POLI 1, 2, 3, 5, 7, 8, 9, 15, 24; SPCH 6
- 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-0 Sociology & Criminology:** PSYC 10, 21, 30; SOC 1, 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. CNSL 2; 80	5. SOC 19, 40
2. CRLP 70	6. SPED 52
3. HLTH 21	7. Physical Education/Human Performance activity courses (maximum allowed: 2 units)
4. HP 48	

Effective Fall 2005 through Summer 2006.
For updated information, access www.assist.org

Major & Certificate Requirements

ACCOUNTING

AA Degree & Certificate

Units required for major: 45, for certificates: 9–35

Associate Degree Requirements*

Core Courses (35 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 (3 units)

BUS 18 Business Law I (4 units)

BUSI 22 Principles of Business (4 units)

or BUSI 53 International Business†

BUSI 91L Introduction to Business Information Processing (4 units)

ECON 1A Principles of Economics (Macro) (5 units)
or ECON 1B Principles of Economics (Micro)†

Electives (10 units minimum)

ACTG 51A Intermediate Accounting (4 units)

ACTG 64A QuickBooks (2 units)

ACTG 64B Microsoft 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)

BUS 19 Business Law II (4 units)

BUSI 53 International Business (4 units)†

BUSI 61 Investment Fundamentals (3 units)

ECON 1A Principles of Economics (Macro) (5 units)†

ECON 1B Principles of Economics (Micro) (5 units)†

†May be taken only once for credit (either core or elective)

Certificate information:

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

Accounting Career Certificate (35 units)

Certificate awarded after completion of the accounting core courses.

Tax Accounting Career Certificate (23 units)

ACTG 1A Financial Accounting I (5 units)

ACTG 1B Financial Accounting II (5 units)

ACTG 64B Microsoft Excel (2 units)

ACTG 67 Tax Accounting (3 units)

ACTG 68A Advanced Tax Accounting I (4 units)

ACTG 68B Advanced Tax Accounting II (4 units)

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 BUSI 65 Payroll Accounting (4 units)

BUSI 22 Principles of Business (4 units)

Enrolled Agent Preparation Program Career Certificate (14 units)

ACTG 67 Tax Accounting (3 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 (11 units)

ACTG 67 Tax Accounting (3 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)

55 percent of certificate coursework must be completed at Foothill College. Core coursework must be completed with a grade of C or better.

ADAPTIVE FITNESS

AA Degree & Certificate

Units required for major: 40, for certificate: 19

Associate Degree Requirements*

Core Courses (32 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 56 Functional Aspects of Adaptive Fitness (3 units)

SPED 57 Working with Special Populations (2 units)

SPED 59 Selected Topics in Special Education (2 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 40B Human Anatomy & Physiology (5 units)

or BIOL40C Human Anatomy & Physiology (5 units)

BIOL 45 Introduction to Human Nutrition (4 units)

H P 9A Exercise Principles of Lifetime Fitness (1 unit)

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)
MATH 10 Elementary Statistics (5 units)
PSYC 1 General Psychology (5 units)
PSYC 25 Introduction to Abnormal Psychology (4 units)
P T 51 Nutrition (3 units)
P T 52 Strength & Stress (4 units)
P T 55 Concepts of Exercise (4 units)
SPCH 1A Public Speaking (4.5 units)
SPCH 52 Interpersonal Communication (5 units)
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)

Certificate Information

Adaptive Fitness Technician Career Certificate (19 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 57 Working with Special Populations (2 units)
SPED 59 Selected Topics in Special Education (2 units)

ANTH 4 Indians of North America
ANTH 8 Introduction to Archaeology (4 units)
Support Courses (8 units)
ANTH 3 Prehistory: The Search for Lost Civilizations (4 units)
ANTH 5 Magic, Science, & Religion (4 units)
ANTH 6 Peoples of Africa (4 units)
ANTH 11 Archaeology Field Trip (4 units)
GEOG 1 Physical Geography (5 units)
or GEOG 2 (Human Geography (4 units)

Electives (8 Units)†

BIOL 10 General Biology: Basic Principles (5 units)
HIST 8 History of Latin America (4 units)
HIST 9 History of Contemporary Europe (4 units)
HIST 18 Introduction to Middle Eastern Civilization (4 units)
HIST 19 History of Asia: China/Japan (4 units)
LING 26 Language, Mind & 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)

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

AMERICAN STUDIES

AA Degree

Units required for major: 35

Associate Degree Requirements*

Core Courses (27 units)
ART 14 American Art (4 units)
ENGL 43 Major American Writers (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)
POLI 1 American Government & Politics (5 units)
or POLI 7 American Government & Politics from a Black Perspective (5 units)

Support Courses (8 units minimum)

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

Units required for major: 32

Associate Degree Requirements*

Core Courses (16 units)
ANTH 1 Introduction to Physical Anthropology (4 units)
ANTH 2A Cultural Anthropology (4 units)
ANTH 2B Patterns of Culture or (4 units)

ART: GENERAL

AA Degree & Certificate

Units required for major: 40.5, for certificate: 40.5

Associate Degree Requirements*

Core Courses (22.5 units)
ART 1 Introduction to Art (4.5 units)
ART 4A Introduction to Drawing (3 units)†
ART 4B Intermediate Drawing (3 units)
ART 5A Basic Two-Dimensional Design (3 Units)†
ART 20A Color (3 units)

And two classes from the following

ART 6 Collage & Composition (3 units)
ART 5B Three-Dimensional Design (3 units)
ART 44 Ceramic Sculpture (3 units)
ART 45A Beginning Ceramics: Handbuilding (3 units)†

Support Courses (18 units)

ART 2A-B-C Art History (4-4-4 units)
ART 2D African, Oceanic, & Native American Art (4 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 5B Three-Dimensional Design (3 units)
ART 6 Collage & Composition (3 units)
ART 8 Basic Perspective Drawing (3 units)
ART 11 Introduction to Mexican Art & Architecture (4 units)
ART 14 American Art (4 units)
ART 19A-B-C Painting (3-3-3 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.

ART 20B Color (3 units)
 ART 44 Ceramic Sculpture (3 units)
 ART 45A-B-C Ceramics (3-3-3 units)†
 ART 45D Advanced Ceramics Decorating Techniques (3 units)
 ART 45F Low Temperature Ceramic Firing & Glazing Techniques (3 units)
 ART 47 Watercolor (3 units)
 ART 49 Monoprinting (3 units) or GID 48 Monoprinting
 ART 69 Introduction to Printmaking (3 units)
 ART 70 Kiln Design, Construction & Operation (3 units)
 ART 72 Studio Art Portfolio Preparation (3 units)
 ART 80 Mural Making: A Community Art Project (3 units)
 ART 86 Painting with the Computer (3 units)
 ART 87 Art of the Electronic Age (2 units)
 ART 96 Books as Art (3 units)
 or GID 90 Book Arts I (4 units)
 VART 20 Video Production I (4 units)
 or GID 20 Video Production I
 GID 50 Graphic Design Studio I (4 units)
 PHOT 1 Beginning Photography (3 units)

†ART 4AX, 5AX and 45AX critique seminar is required if transferring to a CSU and using ART 4A, 5A or 45A to satisfy the Humanities requirement.

Certificate Information:

Certificate of Proficiency in Art/General (40.5 units)
 Same as A.A. degree, except general education courses are not required.

ART: HISTORY

AA Degree & Certificate

Units required for major: 44.5, certificates: 16.5–44.5

Associate Degree Requirements*

Core Courses (32.5 units)
 ART 1 Introduction to Art (4.5 units)†
 ART 2A-B-C Art History (4-4-4 units)†
 ART 2D African, Oceanic & Native American Art (4 units)
 or PHOT 10 History of Photography
 HIST 4A-B-C History of Western Civilization (4-4-4 units)

Support Courses (minimum 12 units)

ART 2E History of Women in Art (4 units)
 ART 3 Modern Art & Contemporary Thought (4 units)
 ART 14 American Art (4 units)
 ART 4A Introduction to Drawing (3 units)
 concurrent with ART 4AX Critique Seminar (1 unit)
 ENGL 16 Introduction to Literary Study (4 units)

†ART 1 recommended before taking Art History courses if no previous experience in art. One to two years of French or German is strongly recommended for students intending to continue in Art History at a four-year institution.

Certificate Information:

Certificate of Proficiency in Art History (44.5 units)

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

Certificate of Completion in Art History (16.5 units)

ART 1 Introduction to Art (4.5 units)
 ART 2A-B-C Art History (4-4-4 units)

ART: STUDIO

AA Degree & Certificate

Units required for major: 42, for certificate: 42

Associate Degree Requirements*

Core Courses (33 units)
 ART 2A-B-C Art History (4-4-4 units)
 ART 4A Beginning Drawing (3 units)†
 ART 4B Intermediate Drawing (3 units)
 ART 4C Advanced Drawing (3 units)
 ART 6 Collage & Composition (3 units)
 ART 5A Basic Two-Dimensional Design (3 units)†
 ART 5B Three-Dimensional Design (3 units) or ART 45A Ceramics†
 ART 20A Color (3 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 4D Figure Drawing (3 units)
 ART 4E Portrait Drawing (3 units)
 ART 8 Basic Perspective Drawing (3 units)
 ART 19A-B-C Painting (3-3-3 units)
 ART 20B Color Theory (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)
 ART 96 Books as Art (3 units) or GID 90 Book Arts I
 VART 20 Video Production I (4 units)
 or GID 20 Video Production I
 GID 50 Graphic Design Studio I (4 units)
 GID 70 Graphic Design Drawing (4 units)
 GID 40 Digital Printmaking (4 units)
 GID 76 Illustration & Digital Imaging (4 units)
 PHOT 1 Beginning Photography (3 units)
 or PHOT 5 Introduction to Photographic Expression

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 21A Fundamentals of Theatre Production (4 units)

Art History

- ART 2D African, Oceanic, & Native American Art (4 units)
- ART 2E History of Women in Art (4 units)
- ART 3 Modern Art & Contemporary Thought (4 units)
- ART 11 Introduction to Mexican Art & Architecture (4 units)
- ART 14 American Art (4 units)
- ART 87 Art of the Electronic Age (2 units)

†ART 4AX, SAX and 45AX seminar is required if transferring to a CSU and using ART 4A, 5A or 45A to satisfy the Humanities requirement.

Certificate information:

Certificate of Proficiency in Art/Studio

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

BIOINFORMATICS

AS Degree & Certificate

Units required for major: 53, for certificate: 49

Associate Degree Requirements*

- BIOL 12 Human Genetics (4 units)
- MATH 10 Statistics (5 units)
- Biotechnology Core Courses
- Computer Science Core Courses

Program Prerequisites (or their equivalent):

- CIS 50A Using the Computer: PC (Windows) (4 units)
- COIN 51 Fundamentals of Internet Technology (5 units)
- MATH 101 Algebra I (5 units)

ENGL 110 Introduction to College Writing (5 units)
or ESL 25 Composition & Reading or Equivalent.

Career Certificate Requirements (49 units)†

- Biotechnology Core Courses (14 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)
 - 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)
- Computer Science Core Courses (30 units)
 - CIS 52A Introduction to Data Management Systems (5 units)
 - CIS 52B2 Introduction to Oracle SQL (5 units)
 - CIS 68A Introduction to UNIX (5 units)
 - CIS 68E Introduction to PERL (5 units)
 - CIS 68H Introduction to BioPERL (5 units)
 - COIN81 Bioinformatics Tools & Databases (5 units)

†A grade of **C** or better is required in all major courses to obtain a degree or certificate in Bioinformatics.

BIOLOGICAL SCIENCES

AS Degree

Units required for major: 44–49

Associate Degree Requirements*

- Required Courses (44–49 units)
 - BIOL 1A Principles of Cell Biology 6 units
 - BIOL 1B Form & Function in Plants & Animals (6 units)
 - BIOL 1C Evolution, Systematics & Ecology (6 units)
 - CHEM 1A-B General Chemistry (5-5 units)
 - CHEM 1C General Chemistry & Qualitative Analysis (5 units)

Students must select one:

Organic Chemistry (Option #1) or Physics (Option #2)

Option # 1

- CHEM 8A-B Introduction to Organic Chemistry (5-5 units)
or CHEM 12A-B-C Organic Chemistry (5-5-5 units)

Option # 2

- PHYS 2-B-C General Physics (5-5-5 units)
or PHYS 4A-B-C General Physics (Calculus) (5-5-5 units)

A letter grade of **C** or better is required in each of the required courses listed above. Information regarding course transferability is available in the Foothill College Course Catalog, from Foothill College counselors and at www.assist.org.

BIOTECHNOLOGY

AS Degree & Certificate

Units required for major: 90, for certificate: 58–60.5

Associate Degree Requirements*

Prerequisites: MATH 101, recent high school algebra or Foothill College Math Proficiency Exam; ENGL 100/110 or ESL 25, or Foothill College English Proficiency Exam; BIOL 10 or recent high school biology; CHEM 30A and CHEM 30B†.

Career Certificate Requirements (One Year)§

Associate Degree Option

Courses to be taken in sequence:

Fall Quarter

- BTEC 51A Cell Biology for Biotechnology (3 units)
- BTEC 51AL Cell Biology Lab for Biotechnology (3.5 units)
- BTEC 55 Laboratory Safety (3 units)
- HORT 52D Plant Biotechnology: Micropropagation (3 units)
- BTEC 66 HPLC (2 units)

Winter Quarter

- BTEC 52A Molecular Biology for Biotechnology (3 units)
- BTEC 52AL Molecular Biology Lab for Biotechnology (3.5 units)
- BTEC 61 Microbial Biotechnology (4 units)
- BTEC 69 Mammalian Cell Culture (2 units)
- BTEC 72 HPLC II (2 units)

Spring Quarter

- BTEC 53A Immunology for Biotechnology (3 units)
- BTEC 53AL Immunology/Virology Laboratory for Biotechnology (3.5 units)
- BTEC 54 Biotechnology Externship (4 units)
- BTEC 57A Virology for Biotechnology (3 units)
- VT 86 Laboratory Animal Care Course (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.

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 (3 units)

CIS 50B Using the Computer-Macintosh (3 units)

CIS 52A Introduction to Data Management Systems (5 units)

CAST 107D Excel:Basics (2.5 units)

CAST 109F Using Access (2.5 units)

BTEC short courses: completion of 6 units, including:

BTEC 66 HPLC: Basic Laboratory Technique (2 units)

BTEC 68 PCR: Basic Laboratory Technique (1 unit)

BTEC 72 HPLC: Basic Laboratory Technique II (2 units)

*§A letter grade of C or better is required in all major classes to obtain a degree or certificate in Biotechnology.**†UC transfer students are strongly recommended to take CHEM 1A, 1B, and 1C.***BUSINESS ADMINISTRATION****AA Degree & Certificate**

Units required for major: 52, for certificates: 3-19

Associate Degree Requirements***Core Courses (23 units)**

ACTG 1A-B Financial Accounting I-II (5-5 units)

ACTG 1C Managerial Accounting (5 units)

BUSI 18 Business Law I (4 units)

BUSI 22 Principles of Business (4 units)

or BUSI 53 International Business†

Support Courses (29 units)

BUSI 91L Introduction to Business Information Processing (4 units)

ECON 1A Principles of Economics (Macro) (5 units)

ECON 1B Principles of Economics (Micro) (5 units)

MATH 10 Elementary Statistics (5 units)

MATH 11 Finite Mathematics (5 units)§

MATH 12 Calculus for Business & Economics (5 units)§

*†Some CSU campuses require either BUSI 22 or 53; consult a counselor.**§For the University of California system, MATH 1A & 1B Calculus should be substituted for MATH 11 & 12.***Certificate information**Request certificate forms at bss.foothill.fhda.edu/certificates.**Certificate of Completion: Small Business (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)‡

*‡Course meets qualification of 35 hours of continuing education credit for MFTs and LCSWs as required by the California Board of Behavioral Sciences Provider number 1695.***Certificate of Achievement: Small Business (19 units)**

BUSI 97 Management Seminar: Creative Decision Analysis (.5 unit)

BUSI 131B How To Start A Home-Based Business (.5 unit)

BUSI 133A Starting a Small Business (1 unit)

BUSI 133E Small Business Marketing, Research & Planning (1 unit)

BUSI 18 Business Law (4 units)

BUSI 61 Investment Fundamentals (3 units)

or BUSI 102 Practical Personal Finance (1 unit)

BUSI 22 Principles of Business (4 units)

or BUSI 53 International Business

BUSI 95E Small Business Export/Import (3 units)

or ACTG 1A Financial Accounting I (5 units)

or ECON 1A Principles of Economics-Macro (5 units)

Certificate of Achievement in E-Commerce & Electronic Business (24 units)

BUSI 22 Principles of Business (4 units)

or BUSI 53 Survey of International Business

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)

COIN 72 Internet Marketing (3 units)

*55 percent of certificate coursework must be completed at Foothill College. Core coursework must be completed with a grade of C or better.***BUSINESS INTERNATIONAL STUDIES****AA Degree & Certificate**

Units required for major: 48, for certificates: 21-33

Associate Degree Requirements*

Basic foreign language requirement: Appropriate area foreign language (15 units or level 3 or equivalency). If a student has already met the foreign language requirements through equivalency then 48 units must be completed in core courses and/or support courses.

Core Courses (18 units minimum)

ACTG 1A-B Financial Accounting I-II (5-5 units)

ACTG 1C Managerial Accounting (5 units)

BUSI 18 Business Law I (4 units)

BUSI 53 Survey of International Business (4 units)

ECON 1A Principles of Economics (Macro) (5 units)†

ECON 1B Principles of Economics (Micro) (5 units)

*†ECON 1A can only be used once to meet one Business International Studies requirement.***Support Courses (15 units minimum)**

At least one course from each subject category:

Business/Economics (1 course)

BUSI 95E Small Business Export & Import (3 units)

ECON 1A Principles of Economics (Macro) (5 units)†

ECON 25 Introduction to the Global Economy (4 units)

*†ECON 1A can only be used once to meet one Business International Studies requirement.***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)
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)
POLI 15 International Relations or (4 units)
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 Information:[§]

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

Certificate of Achievement in International Business Strategy (21 units)

BUSI 53 Survey of International Business (4 units)
ECON 1B Principles of Economics (Micro) (5 units)
GEOG 2 Human Geography (4 units)
HIST 9 History of Contemporary Europe (4 units)
POLI 15 International Relations/World Politics (4 units)

Certificate of Proficiency (33 units)

Granted after completion of the Core and Supporting courses.
English and mathematics proficiency required.
§55 percent of certificate coursework must be completed at Foothill College. Core coursework must be completed with a grade of C or better.

BUSINESS TECHNOLOGY HELP DESK/TECH SUPPORT

AS Degree & Certificate

Units required for major: 39, for certificates: 17-39

Associate Degree Requirements*

Major coursework as listed for the Career Certificate, electives and other graduation requirements a appropriate.

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 (17 units)

Prerequisite to this program is CIS 50A (using the PC) or equivalent
CNET 116A Introduction to PC Electronics & the Command Line (5 units)
CNET 54A Networking Fundamentals & the TCP/IP Protocol Suite (CCNA I) (5 units)
CNET 51H Microsoft Windows XP Professional (4 units)
CNET 119 Customer Service for IT Professionals (3 units)

Level II Certificate (A+) (28 units)

This certificate will provide the coursework necessary to support the acquisition of A+ certification. To obtain this certificate a Level I Certificate is required as well as the following classes:

CNET 116B Windows Installation Upgrading & Troubleshooting (5 units)

CNET 117Z CNET Internship (2 Units)[§]

CNET 60A Microsoft Windows 2003 Server (4 units)

Career Certificate (39 units)

To obtain this certificate a Level II Certificate is required as well as the following classes:

CNET 60B Implementing, Managing, & Maintaining a Microsoft Window's Server 2003 Network Infrastructure (4 units)

CNET 54B Routers & Router Configuration (CCNA II) (5 units)

CNET 117Z CNET Internship (2 units)[§]

†50 percent of the major units must be taken within Computers, Technology & Information Systems Division. A grade of C or better is required in all major classes to obtain a degree or certificate.

§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

BUSINESS TECHNOLOGY: OFFICE ADMINISTRATION

AS Degree & Certificate

Units required for major: 55-59, for certificates: 34.5-59

Associate Degree Requirements*

The degree can be obtained in either of two areas: Office Management with General Office Emphasis; and Office Management with an Office Computing Emphasis.

Certificate Requirements:[†]

Prerequisite skills entry into any of the certificate programs requires the following: (see a counselor if you seek equivalence)

MATH 200 Structure of Arithmetic (5 units)

CAST 102 Keyboarding Skills (.5 unit)

ENGL 110 Introduction to College Writing (5 units)
or ESL 25 Composition & Reading

Core Courses (17 units)

CIS 51A Introduction to Technology Careers I (2 units)

CIS 60 Introduction to Business Information Systems (5 units)

BT 59 Integrated Business Communication (5 units)

MATH 101 Algebra I (5 units)

Support Courses (3 units)

BT 51A-B Professional Keyboarding I-II (1-1 unit)

BT 51C Proofreading (1 unit)

Certificate Information

Business Communication Certificate (20 units):

Requires the prerequisite skills, core and support classes.

Word Processing/Desktop Publishing Certificate (34 units)

This certificate requires the Business Communication Certificate and the following:

CAST 104A-B Microsoft Word I-II (2.5-2.5 units)

CAST 86A Introduction to Adobe InDesign (3 units)

CAST 92A Introduction to Adobe Photoshop (3 units)

CIS 51C Workplace Principles & Practices (3 units)

Accounting/Spreadsheets Certificate (34.5 units)

Requires the Business Communication Certificate and the following:

CAST 107D Using Excel (2.5 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.

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 (3 units)
Database/SQL Certificate (35.5 units)
Requires the Business Communication Certificate and the following:
CAST 109F Using Access (2.5 units)
CIS 52A Introduction to Data Management Systems (5 units)
CIS 52B2 Introduction to Oracle SQL (5 units)
CIS 51C Workplace Principles & Practices (3 units)

Internet/Electronic Commerce Certificate (36 units)
Requires the Business Communication Certificate and the following:
COIN 51 Fundamentals of Internet Technology (5 units)
COIN 56 Electronic Business (3 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
CIS 51C Workplace Principles & Practices (3 units)
Office Manager: Office Computing Career Certificate (55 units)
Requires the Business Communication Certificate and the following:
BUS 22 Principles of Business (4 units)
CAST 86A Introduction to Adobe InDesign (3 units)
CAST 93A PowerPoint: Effective Presentations (3 units)
CIS 51C Workplace Principles & Practices (3 units)
CIS 60 Introduction to Business Information Systems (5 units)
CIS 96Y Special Project (3 units)
COIN 56 Electronic Commerce (4 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
ENGL 1A Composition and Reading (5 units)

Office Manager: General Office Career Certificate (59 units)
Requires the Business Communication Certificate and the following:
ACTG 1A-B Principles of Accounting I-II (5-5 units)
BUS 18 Business Law (4 units)
BUS 22 Principles of Business (4 units)
CIS 51C Workplace Principles & Practices (3 units)
CIS 96Y Special Project (3 units)
ENGL 1A Composition & Reading (5 units)
MATH 10 Elementary Statistics (5 units)
MATH 105 Intermediate Algebra (5 units)

†50 percent of the major units must be taken within CTIS. A grade of C or better is required in all major classes to obtain a degree or certificate.

Mathematics (10 units minimum)†
MATH 1A-B-C-D Calculus (5-5-5 units)
MATH 2A Differential Equations (5 units)
Physics (10 units minimum)†
PHYS 2A-B-C General Physics (5-5-5 units)

PHYS 4A-B-C-D- General Physics-Calculus (5-5-5 units)
†Must have a combined 25 units from math and physics.
50 percent of the major units must be taken within the Physical Sciences, Mathematics & Engineering Division at Foothill College. A grade of C or better is required in all major courses to obtain a degree or certificate.

CHILD DEVELOPMENT

AA Degree & Certificate

Units required for major: 37, for certificates: 12-50

Associate Degree Requirements*

Required Courses (37 units)
CHLD 50 School-Age Child (5-12): Behavior & Development (3 units)
CHLD 50A Infant/Toddler Development (3 units)
CHLD 50B Preschool Years: Age 3 to 6 (3 units)
CHLD 55 Child Growth & Development (4 units)
CHLD 56 Observation Techniques (3 units)
CHLD 56N Introduction to Child Development (4 units)
CHLD 63N Artistic & Creative Development (3 units)
CHLD 72 Language Development (3 units)
CHLD 79 Caring for Infants & Toddlers in Groups (3 units)
CHLD 88 Child, Family & Community (4 units)
CHLD 88B Positive Behavior Management (1 unit)
CHLD 89 Curriculum for the Preschool Classroom (3 units)

Highly Recommended: PSYC 1; 14 or 40; MATH 10.

Certificate Information†

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

Child Development Assistant Career Certificate (12 units)
CHLD 55 Child Growth & Development (4 units)
CHLD 56N Introduction to Child Development (4 units)
CHLD 88 Child, Family & Community (4 units)

This certificate meets the requirements for the California Commission on Teacher Credentialing Child Development Assistant Permit.

Child Development Associate Teacher Career Certificate (19 units)
To the Child Development Assistant Career Certificate (12 units), add
CHLD 50B Preschool Years: Age 3 to 6 (3 units)
CHLD 88B Positive Behavior Management (1 unit)
CHLD 89 Curriculum for the Preschool Classroom (3 units)

This certificate meets the requirements for the California Department of Social Services License for Teachers in Private Child Care Centers. The state permit requires the additional 50 days of experience in an instructional capacity in a child care and development program, working at least three hours per day within the last two years.

Child Development Teacher Career Certificate (37 units)
To the Child Development Associate Teacher Career Certificate (19 units), add
CHLD 50 School-Age Child (5-12): Behavior & Development (3 units)

CHEMISTRY

AS Degree

Units required for major: 50

Associate Degree Requirements*

Refer to catalog of transfer institution of choice regarding possible language requirement.

Prerequisites: MATH 105 or equivalent; CHEM 25 or equivalent.

Chemistry (25 units minimum)

CHEM 1A-B-C General Chemistry (5-5-5 units)

CHEM 12A-B-C Organic Chemistry (5-5-5 units)

CHEM 30B Survey of Organic & Biochemistry (5 units)

CHLD 50A Infant/Toddler Development (3 units)

CHLD 56 Observation Techniques (3 units)

CHLD 63N Artistic & Creative Development (3 units)

CHLD 72 Language Development (3 units)

CHLD 79 Caring for Infants & Toddlers in Groups (3 units)

This certificate meets the course requirements for the California Commission on Teacher Credentialing Child Development Teacher Permit. The state permit requires the additional 175 days of experience in an instructional capacity in a child care and development program, working at least three hours per day within the last four years and 24 units in general education, including at least one course in each of the following areas: Humanities/Fine Arts, Social Sciences, Math/Science, and English/Language Arts.

Child Development Master Teacher Career Certificate (50 units)

To the Child Development Teacher Career Certificate (37 units), add

CHLD 91 Administration & Supervision: Adult Supervision (4 units)

CHLD 53NP Atypical Infant Development (3 unit)

CHLD 71 Planning Creative Art Activities for Children (1 unit)

CHLD 59 Working With School-Age Children Principles & Practicum (3 units)

CHLD 74 Science & Nature (1 unit)

CHLD 82 Planning Creative Dramatics (1 unit)

CHLD 85 Literacy & Literature in Preschool Education (3 units)

This certificate meets the course requirements for the California Commission on Teacher Credentialing Child Development Master Teacher Permit. The state permit requires the additional 350 days of experience in an instructional capacity in a child care and development program, working at least three hours per day within the last four years and 24 units in general education, including at least one course in each of the following areas: Humanities/Fine Arts, Social Sciences, Math/Science, and English/Language Arts.

Child Development Site Supervisor Career Certificate (50 units)

To the Child Development Master Teacher Career Certificate (37 units), add

CHLD 68 Projects in Child Development related to Administration & Supervision (1 unit)

CHLD 90B Administration & Supervision: Designing & Starting a Child Care Facility (4 units)

CHLD 90C Administration & Supervision: Program Operation (4 units)

This certificate meets the course requirements for the California Commission on Teacher Credentialing Child Development Site Supervisor Permit. The state permit requires the additional 350 days of experience in an instructional capacity in a child care and development program, working at least three hours per day within the last four years, including at least 100 days supervising adults and completion of an associate degree (or 90 quarter units).

*†55 percent of certificate coursework must be completed at Foothill College. Core coursework must be completed with a grade of **C** or better.*

CHINESE

AA Degree

Units required for major: 36

Associate Degree Requirements*

Core Courses (36 units)

CHIN 1-2-3 Elementary Chinese I-II-III (5-5-5 units)

CHIN 4-5-6 Intermediate Chinese I-II-III (5-5-5 units)

CHIN 13A-B Intermediate Conversation I-II (3-3 units)

For those students who can demonstrate proficiency equivalent to one year of college Chinese, the requirements for the Chinese major are as follows (32 units)

CHIN 4-5-6 Intermediate Chinese I-II-III (5-5-5 units)

CHIN 13A-B Intermediate Conversation I-II (3-3 units)

Recommended Courses

CHIN 14A-B Advanced Conversation I-II (3-3 units)

CHIN 25A-B Advanced Composition & Reading I-II (4-4 units)

ENGL 25 Descriptive & Historical Linguistics (4 units)

ENGL 25 Language, Mind & Society (4 units)

COMPUTER SCIENCE

AS Degree

Units required for major: 54-55

Associate Degree Requirements*

Core Courses (35 units required)

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-III: JAVA (5-5-5 units)

and

MATH 1A-B-C Calculus (5-5-5 units)

MATH 22 Discrete Mathematics (5 units)

Electives (19-20 units)

CIS 12A Fundamentals of VB.NET Programming (5 units)

CIS 15P C++ For Programmers (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 52B2 Introduction to Oracle SQL (5 units)

CIS 68A Introduction to Linux and UNIX (5 units)

CIS 68B1 Linux & UNIX Shell Programming (5 units)

CIS 78 Software Engineering (5 units)

CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA I) (4 units)

MATH 1D Calculus (5 units)

MATH 2A Differential Equations (5 units)

MATH 2B Linear Algebra (5 units)

PHYS 4A Calculus Physics I (5 units)

50 percent of the major units must be taken within Computers, Technology & Information Systems Division. A grade of **C** or better is required in all major classes to obtain a degree or certificate.

*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.

COMPUTER SOFTWARE DEVELOPMENT

AS Degree & Certificate

Units required for major: 45, for certificates: 20-39

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-III: JAVA (5-5-5 units)

and CIS 52A Introduction to Data Management Systems (5 units)
CIS 78 Software Engineering (5 units)

Electives (select 20 units)

CIS 12A Fundamentals of VB.NET Programming (5 units)

CIS 15P C++ for Programmers (5 units)

CIS 27P JAVA for Programmers (5 units)

CIS 52B2 Introduction to Oracle SQL (5 units)

CIS 68A Introduction to Linux & UNIX (5 units)

CIS 68B1 Linux & UNIX Shell Programming (5 units)

MATH 22 Discrete Mathematics (5 units)

Certificate Information†

All certificates require the English and mathematics proficiency and the additional units in this major.

UNIX System Operations & Administration Career Certificate (39 units)

Core Courses (29 Units):

CIS 27A Computer Science I: JAVA (5 units)
or CIS 15A Computer Science I: C++

CIS 68A Introduction to Linux & UNIX (5 units)

CIS 68B1 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 (4 units)

Electives (select 10 Units):

CIS 27B Computer Science II: JAVA (5 units)

or CIS 15B Computer Science II: C++

CIS 68E Introduction to PERL (5 units)

CIS 68B2 Advanced UNIX Scripting (5 units)

Object-Oriented Software Using C++ Career Certificate (39 units)

Core Courses (25 units):

CIS 15A-B-C Computer Science I-II-III: C++ (5-5-5 units)

CIS 52A Introduction to Data Management Systems (5 units)

CIS 78 Software Engineering (5 units)

Electives (select 14 units):

CIS 12A Fundamentals of VB.NET Programming (5 units)

CIS 15D Designing with C++ Classes (5 units)

CIS 27P JAVA for Programmers (5 units)

CIS 68A Introduction to Linux & UNIX (5 units)

CIS 68B1 Linux & UNIX Shell Programming (5 units)

CIS 68E Introduction to PERL (5 units)

CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (4 units)

Career Certificate in Object-Oriented Software Using JAVA (39 Units)

Core Courses (25 units):

CIS 27A-B Computer Science I-II-III: JAVA (5-5-5 units)

CIS 52A Introduction to Data Management Systems (5 units)

CIS 78 Software Engineering (5 units)

Electives (select 14 units):

CIS 12A Fundamentals of VB.NET Programming (5 units)

CIS 15P C++ for Programmers (5 units)

CIS 27D JAVA Advanced Features (5 units)

CIS 68A Introduction to Linux & UNIX (5 units)

CIS 68B1 Linux & UNIX Shell Programming (5 units)

CIS 68E Introduction to PERL (5 units)

CNET 54A Network Fundamentals and the TCP/IP Protocol Suite (4 units)

Certificates in .NET Development

Students will learn to use Microsoft .NET development tools to implement functional specifications, build, deploy, and maintain MS Windows and Web applications. Courses will prepare students for the Microsoft Certified Application Developer (MCAD) certification, which is a step toward earning the MCSD credential.

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)

Microsoft Certified Application Developer VB Skills Certificate (20 units)

CIS 12A Fundamentals of VB.NET Programming (5 units)

CIS 12D Advanced VB.NET Programming (5 units)

CIS 12W Developing Web Applications with VB.NET (5 units)

CIS 54C SQL Server Database Design (5 units)

†50 percent of the major units must be taken within Computers, Technology & Information Systems Division. A grade of C or better is required in all major classes to obtain a degree or certificate.

CREATIVE WRITING

AA Degree

Units required for major: 33-34

Associate Degree Requirements*

Core Courses (33-34 units)

ENGL 1B Composition, Critical Reading & Thinking (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)

CRWR 36A Writing for the Performing Arts or (4 units)

DRAM 5A Writing for the Performing Arts

and one of these

- ENGL 5 Gay & Lesbian Literature (4 units)
- ENGL 8 Children's Literature (4 units)
- ENGL 9 Short Story (4 units)
- ENGL 10 Introduction to the Novel (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 18 Introduction to Myth in Literature (4 units)
- ENGL 19 Introduction to the Bible as Literature (4 units)
- ENGL 22 Women Writers (4 units)
- ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
- ENGL 26 Language, Mind, & Society (4 units)
- ENGL 31 Chicano Literature (4 units)
- ENGL 32 Irish Literature (4 units)
- ENGL 40 Asian American Literature (4 units)
- ENGL 41 Literature of Multicultural America (4 units)
- ENGL 42A-B-C Introduction to Dramatic Literature (4-4-4 units)
- ENGL 46A-B-C Survey of English Literature (4-4-4 units)
- ENGL 48A-B-C Survey of American Literature (4-4-4 units)

Other Certificate Information

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

Oracle Database Administration Certificate (15 units)

This certificate contains coursework for the exam(s) one needs to take for the Oracle 10g Certified Associate and Oracle Professional Database Administrator credential. It is recommended that the candidate take CIS 52A prior to beginning this sequence. If you started the sequence with Oracle 9i, CIS 52L is available as a catch-up class.

CIS 52B2 Introduction to Oracle SQL (5 units)

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

Oracle Database Developer Certificate (15 units)

This certificate contains the coursework for the exams one needs to take for the Oracle 10g Developer Certified Associate and Forms Developer Certified Professional credential. It is recommended that the candidate take CIS 52A and CIS 52C prior to beginning this sequence.

CIS 52B2 Introduction to Oracle SQL (5 units)

CIS 52J Program With PL/SQL (5 units)

CIS 52K Oracle Forms Developer: Build Internet Applications (5 units)

50 percent of the major units must be taken within Computers, Technology & Information Systems Division. A grade of C or better is required in all major classes to obtain a degree or certificate.

DATABASE MANAGEMENT

AS Degree & Certificate

Units required for major: 43, for certificates: 15-43

Associate Degree Requirements*

Career certificate in either Database Administration or Developer and electives and other graduation requirements as appropriate

Oracle Database Administration Career Certificate (43 units)

CIS 52A Introduction to Data Management Systems (5 units)

CIS 52B2 Introduction to Oracle SQL (5 units)

CIS 52C Data Modeling & Relational dB Design (5 units)

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

CIS 52J Program with PL/SQL (5 units)

CIS 68A Introduction to Linux & UNIX (5 units)

CIS 96Y Special Projects (3 units)

CNET 50 Fundamentals of Data Communication & Networking (5 units)

Oracle Database Developer Career Certificate (43 units)

CIS 27A Computer Science I: JAVA (5 units)†

CIS 52A Introduction to Data Management Systems (5 units)

CIS 52B2 Introduction to Oracle SQL (5 units)

CIS 52C Data Modeling & Relational dB Design (5 units)

CIS 52J Program With PL/SQL (5 units)

CIS 52K Oracle Forms Developer: Build Internet Applications (5 units)

CIS 62A Data Warehousing & Data Mining (5 units)

CIS 96Y Special Projects (3 units)

COIN 86 Server Side Programming with JSP (5 units)

†CIS 27P can be taken in lieu of CIS 27A if the student has object-oriented programming knowledge.

DENTAL ASSISTING

AS Degree & Career Certificate

Units required for major: 44.5, for certificate: 44.5

Associate Degree Requirements:*

Physical examinations and immunizations are required to attend most clinical internships. Background screening and drug testing may be required by clinical facilities. Positive results could impact a student's chances of attending clinics, completing the program requirements or gaining a license to practice upon graduation. The cost of required physical examinations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

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 Advanced 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)

Counseling

If you need counseling for academic requirements, schedule a consultation with a Foothill counselor by calling **(650) 949-7423**.

DENTAL HYGIENE

AS Degree

Units required for major: 127

Prerequisites

Selective admission into the Dental Hygiene Program is based on high school graduation or equivalency; grades of C or higher in high school biology, BIOL 10, or equivalent college biology course; CHEM 30A and 30B or equivalent; AHS 200; DH 200L; eligibility for ESL 26 or ENGL 1A; a GPA of 2.5; and compliance with the technical standards.

Note: DH 200L waiver can be obtained by possession of a current and active California Registered Dental Assistant in Extended Functions license. Prerequisites must be completed by the application deadline. Program information, admission criteria details and applications are available at www.foothill.edu/bio/programs/dentalh/.

Associate Degree Requirements*

Physical examinations and immunizations are required to attend most clinical internships. Background screening and drug testing may be required by clinical facilities. Positive results could impact a student's chances of attending clinics, completing the program requirements or gaining a license to practice upon graduation. The cost of required physical examinations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

First Year**Summer Quarter**

- DA 50 Orientation to Dental Hygiene (1 unit)

Fall Quarter

- DA 52A Oral Biology (3 units)
- DA 53 Assessment Procedures in the Dental Hygiene Process (4 units)
- DA 54 Pre-Clinical Dental Hygiene (4 units)
- DA 59 Survey of Dentistry (1 unit)
- DA 60A Introduction to Dental Radiology (2 units)
- BIOL 40A Anatomy & Physiology (5 units)
- BIOL 46 Fundamentals of Pharmacology (4 units)
- PSYC 1 General Psychology (5 units)

Winter Quarter

- DA 52B Oral Biology (3 units)
- DA 60B Dental Radiography (1 unit)
- DA 61A Clinical Technique (5 units)
- DA 71 Office Emergency Procedures (2 units)
- DA 72 Dental Materials (3 units)
- DA 73 Dental Health Education (2 units)

BIOL 40B Anatomy & Physiology (5 units)**BIOL 41 Microbiology (5 units)****Spring Quarter**

- DH 55A Fundamentals of Pathology (2 units)
- DH 56 Applied Pharmacology in Dentistry (2 units)
- DH 57A Periodontics (2 units)
- DH 61B Introduction to Clinic (4 units)
- DH 68A Radiographic Interpretation (1 unit)
- BIOL 40C Anatomy & Physiology (5 units)
- BIOL 45 Nutrition (4 units)

Summer Quarter

- DH 62A Clinical Dental Hygiene (3.5 units)
- DH 65 Clinical Local Anesthesia (2.5 units)

Second Year**Fall Quarter**

- DH 55B Fundamentals of Pathology (2 units)
- DH 57B Periodontics (2 units)
- DH 60C Dental Radiography (.5 unit)
- DH 62B Clinical Dental Hygiene (5 units)
- DH 63C Community Dental Health (3 units)
- DH 66 Soft Tissue Curettage (1 unit)
- DH 75A Clinical Dental Hygiene Theory (1 unit)
- HLTH 21 Health Education (3 units)

Winter Quarter

- DH 60D Dental Radiology (.5 unit)
- DH 62C Clinical Dental Hygiene (5 units)
- DH 63D Community Dental Health (3 units)
- DH 67 Nitrous Oxide & Oxygen Analgesia (1 unit)
- DH 68B Advanced Radiographic Interpretation (1 unit)
- DH 75B Clinical Dental Hygiene Theory (1.5 units)
- DH 85 Special Topics in Dental Hygiene (1 unit)

Spring Quarter

- DH 57C Periodontics (2 units)
- DH 60E Dental Radiography (.5 unit)
- DH 62D Clinical Dental Hygiene (5 units)
- DH 64 Ethics & Office Practice (2 units)
- DH 75C Clinical Dental Hygiene Theory (1.5 units)

Non-dental hygiene courses may be taken prior to acceptance into the program. Check with a Foothill counselor to ensure transferability.

The Dental Hygiene Program begins in the Summer Session and extends two years. All courses must be taken in sequence and passed with a grade of C or higher. Graduating students will earn an Associate of Science degree and will qualify to take the National Board Dental Hygiene Examination and the California State Board Dental Hygiene Examination. Successful passage of these examinations qualifies the graduate for dental hygiene practice.

To schedule an appointment with the dental hygiene counselor, call (650) 949-7423.

DIAGNOSTIC MEDICAL SONOGRAPHY

AS Degree & Certificate

Units required for major: 82, for certificate: 82

Associate Degree Requirements*

Prerequisites

Selective admission into the DMS Program is based on the following with grades of **C** or higher: High school graduation or equivalency; successful completion of a two-year allied health program such as radiology technology, nuclear medicine technology, cardiovascular technology, registered nursing and/or baccalaureate degree from an accredited institution in the United States in a science/medically related discipline with significant direct patient care experience such as registered nursing, radiology technology or physical therapy; college human anatomy and physiology with labs (preferred within the past five years); college general physics (radiology physics is acceptable); algebra at the high school or college level, or a college- or higher-level mathematics, or placement into MATH 105 on the Foothill College Assessment Test; college-level communication: English, (ENGL 1A); medical terminology or AHS 200 or equivalency if integrated into prior health care program; compliance with technical standards; cardiopulmonary resuscitation certified (can be delayed until acceptance).

Physical examinations, immunizations, background screening and drug testing are required to attend clinical internships. Positive results on background checks and drug testing could impact a student's ability to attend clinics, complete the program requirements or gain a license to practice upon graduation. The cost of required physical examinations, immunizations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

Required Courses (82 units)

Summer Session

DMS 50A DMS Principles & Protocols (4 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 Studies (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 (32 hours clinic) (8 units)
DMS 190X Directed Studies (1 unit)

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 (32 hours clinic) (8 units)
DMS 190X Directed Studies (1 unit)

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 (32 hours clinic) (8 units)

DMS 190X Directed Studies (1 unit)

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 (32 hours clinic) (8 units)

DMS 190X Directed Studies (1 Unit)

Certificate Information

Certificate of Completion

A certificate of completion is awarded upon completion of all DMS curriculum required courses with a grade of **C** or better.

DRAMA & THE FOOTHILL THEATRE CONSERVATORY

AA Degree & Certificate

Units required for major: 59, for certificate: 59

Associate Degree Requirements*

Core Courses (31 units)

DRAM 2A-B-C Introduction to Dramatic Literature (4-4-4 units)
DRAM 20A-B-C-D-E Principles of Acting (3-3-3-3-3 units)
DRAM 71 Fundamentals of Stage Management (4 units)

Master Courses (12 units minimum)†

DRAM 7 Introduction to Directing (4 units)
DRAM 24 Readers Theatre (4 units)
DRAM 30 Oral Interpretation (4 units)
DRAM 38 Movement Practicum for the Actor (2 units)
DRAM 40A Basic Theatrical Make-up (4 units)
DRAM 40B Theatrical Make-up for Production (4 units)
DRAM 46 Voice & Diction (4 units)
DRAM 48 Voice Practicum for the Actor (2 units)
DRAM 53 Auditioning for the Theatre (4 units)
DRAM 54 Actors Workshop (4 units)
DRAM 56A Introduction to Mime, Part 1 (4 units)
DRAM 58 Gesture & Movement for the Actor (4 units)
DRAM 59 Dialects & Theatre Speech (4 units)
DRAM 62 Acting for Film & Television (4 units)

†Master courses are offered every quarter, are taught on an approximate three-year cycle, and are designed to give a thorough and comprehensive investigation of a specific area of the actor's training. They may also be used as electives.

Support Courses (12 units minimum)

DRAM 49-49X-49Y Rehearsal & Performance (3-5.5 units)

DRAM 44 Production Projects (5 units)

Electives (4 units minimum)

Master courses (see previous)

DRAM 1 Theatre Arts Appreciation (4 units)

DRAM 5B Introduction to Playwriting (4 units)
or DRAM 6 Advanced Playwriting

DRAM 8 Multicultural Mosaic of Performing Arts in America (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.

DRAM 21A-B-C Fundamentals of Theatre Production (4-4-4 units)
 DRAM 35 Department Honors Projects in Drama (2 units)
 DRAM 47-X-Y Summer Music/Drama Workshop (3-5.5-10 units)
 DRAM 55A Writing for the Performing Arts (4 units)
 DRAM 55B Playwriting (4 units)
 DRAM 55C Screenplay Writing (4 units)
 DRAM 61 Theatre Live-On Stage (3 units)
 DRAM 85-X-Y-Z Directed Field Study in Theatre (2-3-4-5.5 units)
 DRAM 95-X Drama Summer Stock Workshop (3-5.5 units)
 HP 72 Movement for Actors (2 units)
 MUS 13A Class Voice I (1 unit)

Certificate Information
Certificate of Completion (59 units)
 31 units of core courses, 12 units of master courses, 12 units of support courses, and 4 units of electives.

ECONOMICS

AA Degree

Units required for major: 30

Associate Degree Requirements*

Core Courses (18 units)

ECON 1A Principles of Economics (Macro) (5 units)
 ECON 1B Principles of Economics (Micro) (5 units)
 ECON 9 Political Economy (4 units)†
 ECON 12 Economic History of Western Civilization (4 units)†
 ECON 25 Introduction to the Global Economy (4 units)†

Support Courses (8 units minimum)

BUSI 53 Survey of International Business (4 units)
 GEOG 5 Introduction to Economic Geography (4 units) or GEOG 10 World Regional Geography (4 units)

MATH 10 Elementary Statistics (5 units)

MATH 1A Calculus (5 units)

†*Students may also use ECON 9, ECON 12, and/or ECON 25 as a support or elective course.*

Electives (4 units minimum)§

HIST 4A-B-C History of Western Civilization (4-4-4 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)

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

ENGINEERING

AS Degree

Units required for major: 54

Associate Degree Requirements*

Check with the transfer institution for any additional required courses.

Prerequisites: MATH 49 or equivalent; CHEM 25 or equivalent; high school physics, PHYS 6 or equivalent.

Core Courses (45 units)

CHEM 1A-B General Chemistry (5-5 units)
 ENGR 5 Engineering Applications Programming (5 units)†
 MATH 1B-C-D Calculus (5-5-5 units)
 PHYS 4A-B-C General Physics-Calculus (5-5-5 units)
 †*or approved CIS programming language substitute.*

Electives (9 units)

ENGR 6 Engineering Graphics (6 units)
 ENGR 35 Statics (5 units)
 ENGR 45 Properties of Materials (4 units)
 ENGR 37 Introduction to Circuit Analysis (5 units)
 PHYS 4D General Physics-Calculus (5 units)

Recommended Courses

MATH 2A Differential Equations (5 units)
 MATH 2B Linear Algebra (5 units)

50 percent of the major units must be taken within the Physical Sciences, Mathematics & Engineering Division at Foothill College. A grade of C or better is required in all major courses to obtain a degree or certificate.

ENGLISH

AA Degree

Units required for major: 33, for certificates: 12

Associate Degree Requirements*

Core Courses (33 units)

ENGL 1B Composition, Critical Reading & Thinking (5 units)

and choose one of the following three course series:

ENGL 46A-B-C Survey of English Literature (4-4-4 units)

ENGL 48A-B-C Survey of American Literature (4-4-4 units)

and two of these:

ENGL 8 Children's Literature (4 units)

ENGL 11 Introduction to Poetry (4 units)

ENGL 14 Introduction to Contemporary Fiction (4 units)

ENGL 17 Introduction to Shakespeare (4 units)

ENGL 18 Introduction to Myth in Literature (4 units)

ENGL 19 Introduction to the Bible as Literature (4 units)

and one of these:

ENGL 23 Modern English: Function & Grammar (4 units)

ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)

ENGL 26 Language, Mind & Society (4 units)

and one of these:

ENGL 5 Gay & Lesbian Literature (4 Units)

ENGL 12 Introduction to African American Literature (4 units)

ENGL 22 Women Writers (4 units)

ENGL 31 Chicano Literature (4 units)

ENGL 41 Multicultural Literature (4 units)

Recommended Courses

ENGL 1C Advanced Composition (4 units)

ENGL 54 Professional Writing (offered infrequently) (4 units)

Certificate Information:

American Literature (12 units minimum)
 ENGL 12 African American Literature (4 units)
 ENGL 31 Chicano Literature (4 units)
 ENGL 41 Literature of Multicultural America (4 units)
 ENGL 48A-B-C Survey of American Literature (5-5-5 units)

British Literature (12 units)
 ENGL 46A-B-C Survey of English Literature (4-4-4 units)

Literary Genres (12 units minimum)
 ENGL 8 Children's Literature (4 units)
 ENGL 11 Introduction to Poetry (4 units)
 ENGL 14 Contemporary Fiction (4 units)
 ENGL 17 Introduction to Shakespeare (4 units)
 ENGL 18 Myth in Literature (4 units)
 ENGL 19 Bible as Literature (4 units)

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

Written Communication (12 units minimum)
 ENGL 1A Composition & Reading (5 units)
 ENGL 1B Composition, Critical Reading & Thinking (5 units)
 ENGL 2 Advanced Composition (4 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)
 ENGL 26 Language, Mind & Society (4 units)

CNET 60B Microsoft Windows 2003 Network Services (4 units)
 CNET 60F Microsoft Windows 2003 Exchange Server (4 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 68B1 Linux & UNIX Shell Programming (5 units)
 CIS 68C2 Linux & UNIX Network Administration (5 units)

Wireless Group (8 units)
 CNET 65B Wireless Network Security (4 units)
 CNET 65C Wireless Network Analysis (4 units)

Security Group (10 units)
 CNET 56E Windows XP/2000/2003 System Security (5 units)
 CNET 56F Linux & UNIX System Security (5 units)

Certificate Requirements
 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.

A+ Preparation Certificate (17 units)
 Designed to prepare the student to pass the A+ examination.
 CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (5 units)
 CNET 116A Introduction to PC Construction Electronics & the Command Line (5 units)
 CNET 116B Windows Installation, Upgrading & Troubleshooting (5 units)
 CNET 95A Cable Installation & Termination (2 units)

Cisco CCNA Academy Certificate (22 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.
 CNET 95A Cable Installation & Termination (2 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)
 Designed to prepare the student to receive the CCNP credential. CCNA certification or equivalent is required to enter this program.
 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 (16 units)
 Designed to prepare the student for the MCSA exam
 CNET 51H Microsoft Windows XP Professional (4 units)
 CNET 60A Microsoft Windows 2003 Server (4 units)
 CNET 56A Introduction to Network Security (4 units)
 CNET 56B Intrusion Detection, Awareness Analysis & Prevention (4 units)
 CNET 65A Wireless Network Administration (4 units)

and select one of the following groups (8-10 units)
MCSE Group (8 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.

MCSE Preparation Certificate (12 units)

Designed to prepare the student for the MCSE exams. Students entering this program must have an MCSA certificate (above)
CNET 60C Microsoft Windows 2003 Network Infrastructure (4 units)

CNET 60D Microsoft Windows 2003 Active Directory (4 units)
CNET 60E Microsoft Windows 2003 Network Design (4 units)

Network Security Certificate (23 units)

CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (5 units)

CNET 56A Introduction to Network Security (4 units)†
CNET 56B Intrusion Detection, Awareness, Analysis & Prevention (4 units)

CNET 56E Windows XP/2000/2003 System Security (5 units)
CNET 56F Linux & UNIX System Security (5 units)

†*Designed to prepare the student for the CompTIA Security + exam.*

Wireless Networking Certificate (16 units)

Designed to prepare the student for the CWNA exam sponsored by Planet 3.

CNET 65A Wireless Network Administration (4 units)

CNET 65B Wireless Network Security (4 units)

CNET 65C Wireless Network Analysis (4 units)

50 percent of the major units must be taken within Computers, Technology & Information Systems Division. A grade of C or better is required in all major classes to obtain a degree or certificate.

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 (12 units required)

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: Interiorscaping (3 units)

HORT 52G Horticultural Practices: Turfgrass Management (3 units)

HORT 52H Horticultural Practices: Integrated Pest Management (3 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)

Short Course Specialization (2 units required)

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)

Certificate Information

HORT 80 Environmental Horticulture Skills (2 units)§

§*Must be taken twice for a total of 4 units for career certificate, and four times for a total of 8 units for an A.S. degree.*

Career Certificate (64 units)

Awarded for completion of the same requirements as the A.S. degree except the general education courses are not required.

ENVIRONMENTAL HORTICULTURE & DESIGN

AS Degree & Certificate

Units required for major: 66, for certificates: 44–64

Associate Degree Requirements*

HORT 80 Environmental Horticulture Skills (8 units total)

Core Courses

HORT 10 Environmental Horticulture & the Urban Landscape (3 units)

HORT 50A Orientation to Environmental Horticulture (4 units)

HORT 51A-B Plant Materials I-II (3-3 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 54D Landscape Construction: Applied Practices (2 units)

HORT 60A Landscape Design: Graphic Communication (3 units)

HORT 60B Landscape Design: Theory (3 units)

HORT 60C Landscape Design: Irrigation (3 units)

HORT 80 Environmental Horticulture Skills (2 units)†

†*must be taken twice for a total of 4 units*

Specializations

Plant Material Specialization (2 units required)

HORT 51C Plant Materials: Annuals (2 units)

HORT 51D Plant Materials: California Native Plants (2 units)

Skills Certificate (44 units)

Completion of the core courses with a letter grade of **C** or better. Partial or full general education waivers may be possible for people possessing an existing degree from an accredited institution or existing college credits.

All coursework in the Environmental Horticulture & Design Program must be completed with a letter grade of **C** or better in order to graduate and/or receive a certificate.

FRENCH

AA Degree & Certificate

Units required for major: 36, for certificates: 15–36

Associate Degree Requirements*

Core Courses (36 units)

FREN 1-2-3 Elementary French (5-5-5 units)†

FREN 4-5-6 Intermediate French (5-5-5 units)

FREN 13A-B Intermediate Conversation I-II (3-3 units)

†For students who can demonstrate proficiency equivalent to one year of college French, FREN 1, 2 and 3 can be eliminated from the core courses.

Support Courses

FREN 14A-B Advanced Conversation I-II (3 units)

FREN 25A-B Advanced Composition & Reading (4-4 units)

FREN 39 French Literature in Translation (4 units)

ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)

ENGL 26 Language, Mind & Society (4 units)

Certificate Information

Certificate of French Language Completion (15 units)

FREN 1-2-3 Elementary French (5-5-5 units)

Certificate of French Language Achievement (28 units)

FREN 1-2-3 Elementary French (5-5-5 units)

FREN 13A-B Intermediate Conversation I-II (3-3 units)

FREN 14A Advanced Conversation I (3 units)

FREN 39 French Literature in Translation (4 units)

Certificate of French Proficiency (36 units)

FREN 1-2-3 Elementary French (5-5-5 units)

FREN 4-5-6 Intermediate French (5-5-5 units)

FREN 13A-B Intermediate Conversation I-II (3-3 units)

GENERAL STUDIES/HUMANITIES

AA Degree

Units required for major: 24

Associate Degree Requirements*

Core Courses (8 units)

HUMN 1A Humanities & the Modern Experience (4 units)

HUMN 1B Humanities & the Modern Experience (4 units)

Support Courses (16 units)

A minimum of 4 units each from four of the categories listed below:

1. Art	4. Literature
2. Drama	5. Music
3. Language (may include ENGL 1B, Speech, or Foreign Language)	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

A minimum of 4 units from each category listed below:

1. Biology
2. Chemistry
3. Physics
4. Mathematics (*courses numbered 1 through 99 only*)
5. Electronics/Engineering/Computer Information Systems (BASIC, Pascal, C, C++, Java)/Astronomy/Geology/Meteorology/Oceanography

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.

50 percent of the major units must be taken within the Physical Sciences, Mathematics & Engineering Division at Foothill College. A grade of **C** or better is required in all major courses to obtain a degree or certificate.

GENERAL STUDIES/SOCIAL SCIENCE

AA Degree

Units required for major: 34

Associate Degree Requirements*

Core Courses:

A minimum of 34 units from at least four of the categories listed below:

1. Anthropology	5. Political Science
2. Economics	6. Psychology
3. Geography	7. Sociology
4. History	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.

GEOGRAPHY

AA Degree & Certificate

Units required for major: 33, for certificates: 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)

*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.

Support Courses (8 units minimum)

ANTH 2A Cultural Anthropology (4 units)
or ANTH 2B Patterns of Culture
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
HIST 4A History of Western Civilization (4 units)
or HIST 4B History of Western Civilization
MET 10 Weather Processes (4 units)
OCEN 10 General Oceanography (4 units)
POLI 15 International Relations (4 units)

Electives (8 units minimum)†

ANTH 6 Peoples of Africa (4 units)
HIST 8 History of Latin America (4 units)
HIST 9 History of Contemporary Europe (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)

†*Students may also use courses listed under support courses for electives.
May be taken only once for credit (either support or electives).*

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 36Y Special Projects in Geography (3 units)
GEOG 52 Advanced Geographic Information Systems (4 units)
GEOG 54A Seminar in Specialized Applications & Geographic Information Systems (2 units)
GEOG 54B 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)
CIS 52B Introduction to Oracle SQL (5 units)

and

Focus Area Courses (6 units)

Courses in an approved academic area of the student's selection

Support Courses (5 units)**Select one of the following:**

COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
CIS 27A Computer Science I: Java (5 units)
CIS 12A Introduction to Visual Basic (5 units)
55 percent of certificate coursework must be completed at Foothill College. Core coursework toward certificates must be completed with a grade C or better.

GEOLOGY**AS Degree**

Units required for major: 60

Associate Degree Requirements*

Prerequisites: MATH 51 or equivalent; CHEM 25 or equivalent.

Core Courses (60 units)

CHEM 1A-B-C General Chemistry (5-5-5 units)
GEOL 10 Introductory Geoscience (Physical Geology) (5 units)
GEOL 11 Evolution of the Earth (Historical Geology) (5 units)
MATH 1A-B-C Calculus (5-5-5 units)
MATH 49 Precalculus (5 units)
PHYS 2B-C General Physics (5 units)

Recommended Courses

MATH 1D Calculus (5 units)
MATH 2A Differential Equations (5 units)
MATH 10 Elementary Statistics (5 units)

50 percent of the major units must be taken within the Physical Sciences, Mathematics & Engineering Division at Foothill College. A grade of C or better is required in all major courses to obtain a degree or certificate.

GERMAN**Certificate**

Units required for certificate: 15

GERM 1-2-3 Elementary German (5-5-5 units)

GRAPHIC & INTERACTIVE DESIGN**AA Degree & Certificate**

Units required for major: 90, for certificates: 9-58

Associate Degree Requirements*

Foundation Courses (48 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 Beginning Photography (3 units)
or PHOT 5 Introduction to Photographic Expression
GID 70 Graphic Design Drawing (4 units)
GID 1 History of Graphic Design (4 units)
GID 60 Careers In the Visual Arts (2 units)
GID 50-51-52 Graphic Design Studio I-II-III (4-4-4 units)
GID 54 Typography (4 units)

GID 61 Service Learning Projects (4 units)

GID 62 Portfolio (4 units)

Electives (10 units)

Choose any 10 units from the skills certificates listed below.

Certificate Information

Career Certificate (58 units)

The career certificate in Graphic & Interactive Design requires completion of the 58 units of graphic design courses listed in the A.A. degree requirements. General education courses are not required.

Skill Certificates (9-12 units)

Skill certificates are areas of specialty and are encouraged to be taken after completing Graphic Design Studio III. See prerequisite information specific to each class.

Interactive Media Design (12 units)

GID 71 Storyboarding (4 units)

GID 54 Typography (4 units)

GID 56 Web Site Design (4 units)

Motion Design (12 units)

GID 71 Storyboarding (4 units)

GID 84 Motion Graphics (4 units)

GID 80 Digital Sound, Video & Animation (4 units)

Video Design (12 units)

GID 71 Storyboarding (4 units)

GID 20 Video Production I (4 units)

GID 80 Digital Sound, Video & Animation (4 units)

Printmaking (12 units)

GID 38-39 Printmaking I-II (4-4 units)

GID 40 Digital Printmaking (4 units)

Printmaking Studio (12 units)

GID 42 Beginning Etching (3 Units)

GID 44 Beginning Relief Printmaking (3 Units)

GID 46 Beginning Screenprinting (3 units)

GID 48 Monoprinting (3 units)

Book Arts (12 units)

GID 90-91 Book Arts I-II (4-4 units)

GID 92 Letterpress Printing (4 units)

Illustration (12 units)

GID 72 Cartooning (4 units)

GID 74 Introduction to Digital Art & Graphics (4 units)

GID 76 Illustration & Digital Imaging (4 units)

Software (12 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)

Art Media (9 units)

ART 6 Collage & Composition (3 units)

ART 47 Water Color (3 units)

ART 19A Painting (3 units)

HISTORY

AA Degree

Units required for major: 34

Associate Degree Requirements*

Core Courses (22 units)

HIST 4A-B-C History of Western Civilization (4-4-4 units)

HIST 17A-B History of the United States (5-5 units)

Support Courses (8 units minimum)

HIST 8 History of Latin America (4 units)

HIST 9 History of Contemporary Europe (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)

Electives (4 units minimum)†

HIST 16 Introduction to Ancient Rome (4 units)

HIST 24 20th Century American Foreign Policy (4 units)

HIST 30 War & Peace in the 20th & 21st Centuries (4 units)

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

INDIVIDUAL STUDIES— TRANSFER PROGRAM

AA & AS Degree

Units required for major: 72-75

Associate Degree Requirements*

Select courses for area of emphasis based upon lower-division major preparation requirements at the transfer institution of choice.

University Transfer Preparation Tracks

CSU Transfer Preparation Track (45 units minimum)

A. Choose one course from SPCH 1A, 1B, 2, 3 or 4 (4.5 units)

B. Choose one course from ENGL 1A or ESL 26 (5 units)

C. Choose one course from PHIL 1 or ENGL 1B (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)

All courses from A-D must be completed with a grade of C or better.

E. Complete a minimum of 25.5 additional units, chosen from:

1. ASTR 10A, 10B, 10L; CHEM 1A\$, 1B\$, 1C\$, 8A\$, 8B\$, 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\$, 4D\$, 6, 12.

2. BIOL 1A\$, 1B\$, 1C\$, 1D, 10\$, 12, 13\$, 14\$, 15\$, 17, 40A\$, 40B\$, 40C\$, 41\$, 45.

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.

3. ART 1, 2A, 2B, 2C, 2D, 2E, 3, 4A with 4AX, 4C with 4CX, 6, 11, 14, 45A with 45AX, 80; DRAM 1, 2A, 2B, 2C, (same as ENGL 42A, 42B, 42C) DRAM 2D, 2E, 2F, 8, 20A (w/DRAM 20AL), 24, 30, 46; F/TV 2C, 3; MUS 1, 2A, 2B, 2C, 3A, 3B, 3C, 7, 7D, 7E, 8, 10, 27, 28, 85; PHOT 1 with 1LX, 10, 11; SPCH 24, 30; WMN 15.

*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.

4. CHIN 1, 2, 3, 4, 5, 6; CRWR 6, 7, 37A, 37B, 37C, 37D, 39A, 39B, 39C, 39D, 40A, 40B, 40C, 40D, 41A, 41B, 41C, 41D, 60A, 60B, 60C, 60D, 61A, 61B, 61C; DRAM 30; ENGL 1B, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 17, 18, 19, 20, 22, 24, 25, 26, 28, 29, 30, 31, 32, 40, 41, 42A, 42B, 42C (*same as DRAM 2A, 2B, 2C*), 43, 45, 46A, 46B, 46C, 47, 48A, 48B, 48C, 49, 97A, 97B, 97C, 97D, 97E, 97F, 97G, 97H; FTV 2A, 2B; FREN 1, 2, 3, 4, 5, 6, 39; GERM 1, 2, 3, 4, 5, 6, 39; HEBR 1, 2, 3; HIST 4A, 4B, 4C; HUMN 1A, 1B; JAPN 1, 2, 3, 4, 5, 6, 33; KORE 1, 2, 3, 4, 5, 6; LING 23, 25, 26; PHIL 2, 4, 8, 10, 11, 20A, 20B, 22, 24, 25; POLI 10, SPAN 1, 2, 3, 4, 5, 6; SPCH 12, 30, 46.

Students who did not complete ENGL 1B in Section C (above) should complete it for Section E4.

5. ANTH 1, 2A, 2B, 3, 4, 5, 6, 8, 8L, 8LY, 11, 50; ART 2E; CHLD 50A, 55; ECON 1A, 1B, 9, 12, 25; ENGL 12, 22, 26, 31, 40; GEOG 2, 5, 9, 10; GERM 8; HIST 4A, 4B, 4C, 8, 9, 10, 12, 14, 15, 16, 17A, 17B, 18, 19, 20, 22, 23A, 24, 30; MUS 8; PHIL 10, 24, 25; POLI 1, 2, 3, 5, 6, 7, 8, 9, 10, 15, 24, 30; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 48, 49, 55; SOC 1, 10, 11, 15, 20, 21, 23, 30, 40, 51, 58; SOSC 20; SPCH 10, 12; WMN 5, 11, 15, 21.

Students should complete either POLI 1 or POLI 7 plus HIST 17A or HIST 17B to fulfill the CSU American Institutions & Ideals graduation requirements.

6. BIOL 11; CRLP 70; HLTH 21; any HP Activity course (limited to 2 units), HP 48; SOC 19, 40; SPED 52.

UC/CSU Transfer Preparation Track†

Complete a minimum of 48 units from the following:

A. Complete ENGL 1A (5 units)
 B. Complete ENGL 1B (5 units)
 C. Complete one course from SPCH 1A, 1B, 2, 3, 4 (4.5 units)

C is strongly recommended, but not required. One course from C is required for students requesting IGETC certification to a CSU campus.

D. Complete one course from: CIS 18; MATH 1A, 1B, 1C, 1D, 2A, 2B, 10, 11, 12, 22, 49 (5 units)

All courses from A-D must be completed with a grade of C or better.

E. Complete a minimum of 33 units, as prescribed below:

- One course from: ART 1, 2A, 2B, 2C, 2D, 2E, 3, 11, 14; DRAM 1, 2A, 2B, 2C, 2D, 2E, 2F, 8; ENGL 42A, 42B, 42C; FTV 2A, 2B, 3; MUS 1, 2A, 2B, 2C, 3A, 3B, 3C, 7, 7D, 7E, 8, 10, 27, 28, 85; PHOT 11; WMN 15.
- One course from: CHIN 4, 5; DRAM 2A, 2B, 2C; ENGL 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 17, 18, 19, 20, 22, 24, 25, 26, 28, 29, 31, 32, 40, 41, 42A, 42B, 42C, 43, 45, 46A, 46B, 46C, 47, 48A, 48B, 49; FREN 4, 5, 39; GERM 4, 5; HIST 4A, 4B, 4C; HUMN 1A, 1B; JAPN 4, 5, 6, 33; KORE 4, 5, 6; LING 25, 26; PHIL 2, 4, 8, 10, 11, 20A, 20B, 22, 24, 25; POLI 10; SPAN 4, 5.
- One additional course from either #1 or #2.
- Three courses from at least two different disciplines from: ANTH 1, 2A, 2B, 3, 4, 5, 6, 8; ART 2E; CHLD 55; ECON 1A, 1B, 9, 12, 25; GEOG 2, 5, 9, 10; GERM 8; HIST 4A, 4B, 4C, 8, 9, 10, 12, 14, 15, 16, 17A, 17B, 18, 19, 20, 22, 23A, 24, 30; PHIL 10; POLI 1, 2, 3, 5, 6, 7, 8, 9, 10, 15, 24, 30; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 48, 49; SOSC 20; SOC 1, 10, 11, 15, 20, 21, 23, 30, 40; SPCH 10, 12; WMN 5, 11, 15, 21.
- One course minimum from: ASTR 10A, 10B, 10L; CHEM 1A, 1B, 1C, 8A, 8B, 10, 12A, 12B, 12C, 25, 30A, 30B; GEOG 1; GEOL 10, 11; MET 10, 10L; OCEN 10; PHYS 2A, 2B, 2C, 4A, 4B, 4C, 4D, 6, 12.

6. One course minimum from: BIOL 1A, 1B, 1C, 1D, 10, 12, 13, 14, 15, 17, 40A, 40B, 40C, 41.

At least one of the courses completed for #5 and #6 above must include a laboratory. Laboratory courses are underlined.

7. 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 or completion of one of the following courses: CHIN 2; FREN 2; GERM 2; HEBR 2; JAPN 2; KORE 2; SPAN 2, 10A. Official transcripts must be on file. See a counselor for more details.

#7 is strongly recommended, but not required. Language proficiency is required for students requesting IGETC certification to a UC campus.

Emphases

A minimum of 27 units from one of the four emphases.

Science, Math & Engineering Emphasis

ASTR 10A-B, 10L; BIOL1A-B-C-D, 10, 11, 12, 13, 14, 15, 17, 33A-B-C, 33D, 40A-B-C, 41, 45, 46; CHEM 1A-B-C, 8A-B, 10, 12A-B-C, 25, 30A-B; CIS 1, 2, 12A-B-C-D-E, 15A-B-C-D, 15P, 18, 19A, 19P, 24A, 25A, 25B, 27A-B-C-D, 27P, 30, 52A-B-C-D-E-F-G-H-I-J, 60, 63A, 68A, 68B1, 68B2, 68C1, 68C2, 68C3, 68E, 68H, 68J, 78; CAST 50; COIN 61, 63, 66, 68, 70, 78, 78B, 79, 80, 81, 86, 88, 90; ENGR 5, 6, 27, 35, 37, 37L, 45, 49; GEOL 3, 10, 11, 22, 25, 45A-B-C-D-E, 49A; GEOG 1; HLTH 5, 21; MATH 1A-B-C-D, 2A-B, 10, 11, 12, 22, 44, 49, 51; MET 10; OCEN 10; PHYS 2A-B-C, 4A-B-C-D, 6, 12

Business & Computer Information Systems Emphasis

ACTG 1A-B-C, 51A, 60, 64A-B, 65, 66, 67, 68A-B-C; BUSI 10, 18, 19, 22, 35, 53, 54, 55, 57, 58, 59, 61, 62, 64 X-Y-Z, 91L, 92, 95, 95E, 97 (D-W); BIS 53, 58, 95E; CAST 50, 70B1-B2, 52A-B, 88A-B, 89A-B, 90A-B; CIS 1, 2, 12A, 12C-D-E, 15A-B-C-D, 15P, 18, 19A, 19P, 24A, 25A-B, 27A-B-C-D, 27P, 52A-B-C-D-E-F-G-H-I, 60, 63A, 68, 68A, 68B1-B2, 68C1-C2-C3, 68E, 68H, 68J, 78; CNET 51A-B-C-D-E-F-G, 52, 59; ECON 1A, 1B, 9, 25; MATH 10, 11, 12, 1A-B-C; R E 50, 51, 51B, 52A-52B, 53, 54, 56A-56B, 57 X-Y-Z, 59, 61, 80; SPCH 55

Social Sciences Emphasis

ANTH 1, 2A, 2B, 3, 4, 5, 6, 8, 8L-LX-LY, 11, 11B, 50; CHLD 50, 50A, 50B, 53NP, 55, 88; ECON 1A, 1B, 9, 25; GEOG 2, 5, 9, 10, 12, 52, 54, 56, 58, 59; HIST 4A, 4B, 4C, 8, 9, 10, 14, 15, 16, 17A, 17B, 18, 19, 20, 23A, 24, 30; PHIL 20A, 20B; POLI 1, 2, 3, 5, 6, 7, 8, 9, 15, 24, 30; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 48, 49, 55, 56; SOSC 20, 79; SOC 1, 10, 11, 15, 19, 20, 21, 23, 30, 40; SPED 52; SPCH 10, 12; WMN 5, 11, 15, 21

Arts & Letters Emphasis

ART 1/1L, 2A-B-C-D-E, 2L, 3, 4A/AX, 4B, 4C/CX, 4D, 4E, 5A/AX, 5B, 6, 8, 9, 11, 14, 19A-B, 19C, 19L, 20A-B, 36, 37A-B-C, 39A-B-C, 43/43L, 44/44L, 45A/45AL, 45AX, 45B, 45BL, 45C, 45CL, 45D, 45DL, 45F, 45FL, 45L-LX, 47, 49, 54, 56, 69, 70, 71, 80, 83, 86, 87, 88, 96; CHIN 1 thru 6, 13A, 13B, 25A, 25B; CRWR 6, 36A, 36B, 36C, 39A, 39B, 40A, 40B, 40C, 40D, 41A, 41B, 41C, 41D, 60A, 60B, 60C, 60D; DRAM 1, 2A-B-C, 6, 7, 8, 20A/AL, 20B/BL, 20C/CL, 20D/DL, 20E, 20EL, 21A-B-C, 24, 30, 38, 40A/AL, 40B/BL, 42A, 42B, 42C, 44, 46, 47 X-Y, 48, 49 X-Y, 51A-B, 51BL, 53, 54, 55A-B-C, 56A, 56B, 58, 59, 61, 62, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 85 X-Y-Z, 86, 90 X-Y-Z, 95, 95X, 96 X-Y-Z, 97 X-Y-Z, 98 X-Y-Z, 99 X-Y-Z; ENGL 1A, 1B, 1C, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 28, 29, 30, 31, 32, 40, 41, 42A-B-C, 43, 45, 46A-B-C, 47, 48A-B-C, 49, 51A, 52, 54, 80, 97A-H; F TV 1, 2A-B-C, 3, 20, 21, 53, 65A, 65B, 80 X-Y-Z, 81B, 84, 85, 86; F A 30 X-Y-Z; FREN 1 thru 6, 13A, 13B, 14A, 14B, 25A, 25B, 39; GERM 1 thru 6, 8, 13A-B, 14A-B, 25A-B, 39; GRDS 8, 20, 21, 36, 37A, 39A-B-C, 40, 50, 51, 53, 56, 57, 60, 62, 64A-B, 65A, 66A-B, 69, 70, 71, 72, 73A-B,

75, 76, 77, 78, 83, 85, 86, 87, 88, 88A-B-C, 90, 92, 94, 95, 96, 98; HIST 4A-B-C; HUMN 1A, 1B; ITAL 61; JAPN 1 thru 6, 13A, 13B, 14A-B, 25A-B, 33, 80; KORE 1 thru 6; LATN 1, 2, 34; LING 23, 25, 26; MUS 1, 2A/AL, 2B, 2C, 3A/AL, 3B/BL, 3C/3CL, 7, 7D, 7E, 8, 10, 12A/AL, 12B/BL, 12C/CL, 12D/DL, 12E, 12F, 13A/AL, 13B/BL, 13C/CL, 14A/AL, 14B/BL, 14C/CL, 15A/AL, 15B/BL, 15C/CL, 27, 28, 43A, 43B, 46A-B-C-D, 50A-B, 58A-B-C, 59, 62A/AL, 62B/BL, 62C/CL, 65, 66A-B, 68, 80, 81, 82, 85, 86; MUSP 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41A-F, 42, 43, 44, 45, 45V, 45W, 49X-Y-Z, 61 A-F, 96 X-Y; PHIL 1, 2, 4, 7, 8, 20A-B, 22, 24, 25; PHOT 1, 1LX, 2, 5, 10, 13, 50, 51, 53, 55, 57, 59, 60, 63, 65A-B-C, 67, 68, 70, 71, 72, 74, 75, 78, 83; SPAN 1 thru 6, 10A, 13A-B, 14A-B, 25A-B; SPCH 1A, 1B, 2, 3, 4, 10, 12, 24, 30, 46, 53, 54 X-Y-Z, 55, 56; WMN 15

†Students may not count foundation courses taken for either the CSU or CSU/UC Transfer Preparation Track toward the 27-unit emphasis. Individual Studies—Transfer major courses may be double counted toward satisfaction of the Foothill College general education requirements. Students transferring to a university for which the two transfer preparation tracks are not appropriate may petition the dean of Counseling & Student Services for a course substitution. Consult a counselor for more information.

INFORMATICS

AS Degree & Certificate

Units required for major: 56, for certificates: 23–56

Program Prerequisites (10 units)*

CIS 61A Informatics (5 units)

CIS 60 Business Information Systems (5 units)
or CIS 2 Computers in Society

Core Courses (39 units)

CIS 52C Data Modeling & Relational Database Design (5 units)

CIS 52B2 Introduction to Oracle SQL (5 units)

CIS 62A Data Warehousing & Data Mining (5 units)

CIS 63A1 Systems Analysis & Design (5 units)

COIN 78 XML (5 units)

MATH 10 Statistics (5 units)

CIS 63B Design & Analysis for Informatics Research (5 units)

and choose one of the following:

CIS 12A Fundamentals of VB.NET Programming (5 units)

CIS 15A Computer Science I: C++ (5 units)

CIS 19A Introduction to Programming with C# (5 units)

CIS 27A Computer Science I: JAVA (5 units)

CIS 68E Introduction to PERL (5 units)

Project Preparation (15–20 units)

Minimum expectations include a minimum of 15–20 quarter units of concentrated coursework or 300 hours of documented work experience. Actual preparation coursework or acceptable work experience will be decided by the subject matter expert faculty member assigned to the project.

Program Project/Internship (3 units)

Upon completion of the informatics core and project preparation coursework the student seeking the degree or career certificate in informatics is required to complete an approved project or internship which couples the informatics core courses with an area of emphasis. The project can be substituted with an

internship experience of not less than 100 hours, approved by faculty in the department of the emphasis area.

CIS 61Z Informatics Project (3 units)

Certificate Requirements

Career Certificate in Informatics (54–59 units)

Program prerequisites; English proficiency: ENGL 1A, ESL 26, or equivalent; core classes (39 units); project preparation (15–20 units); program project or internship.

Skills Certificate in Informatics (25 units)

Program prerequisites; English proficiency: ENGL 110, ESL 25, or equivalent; the following classes (25 units).

CIS 52C Data Modeling & Relational Database Design (5 units)

MATH 10 Statistics (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)

†50 percent of the major units must be taken within CTIS. A grade of C or better is required in all major classes to obtain a degree or certificate from CTIS.

INTERACTIVE & MULTIMEDIA TECHNOLOGIES

AS Degree & Certificate

Units required for major: 53–54, for certificates: 53–54

Associate Degree Requirements*

Core Courses (39 Units)

CAST 70A Introduction to Adobe Premiere (3 units)
or CAST 70F Introduction to Final Cut Pro

CAST 52A Introduction to Macromedia Flash (4 units)

CAST 52B Advanced Macromedia Flash (4 units)

CAST 70B Multimedia Design & Authoring (3 units)

CAST 70C Interactive Multimedia Project (3 units)

CAST 70D 3D Modeling & Animation for Multimedia (3 units)

CIS 51A Preparation for Technology Careers (2 units)

COIN 51 Fundamentals of Internet Technology (5 units)

GID 71 Story Boarding (4 units)

GID 74 Introduction to Digital Art & Graphics (4 units)

GID 80 Introduction to Digital Sound, Video & Animation (4 units)

Programming Courses (4-5 units)

CIS 1 Introduction to Computer Science (5 units)

CIS 12A Introduction to Visual BASIC (5 units)

CIS 12C Designing with Visual BASIC (5 units)

CIS 15A Computer Science I: C++ (5 units)

CIS 15P C++ for Programmers (5 units)

CIS 27A Computer Science I: JAVA (5 units)

COIN 70A Introduction to Programming Using JavaScript (4 units)
or COIN 70B Using JavaScript

Electives (10 units)

CIS 2 Computers & Society (4 units)

CAST 52B Advanced Macromedia Flash (4 units)

CAST 92A Introduction to Adobe Photoshop (3 units)

CAST 93A PowerPoint: Effective Presentations (3 units)

COIN 61 Publishing on the Web Using HTML/XHTML (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.

GID 20 Digital Video Production I (4 units)
GID 50 Graphic Design Studio I (4 units)
GID 84 Motion Graphics (4 units)
GID 56 Web Site Design (4 units)

Certificate Information

Interactive & Multimedia Technologies: Career Certificate (53-54 units)

Same as the A.S. degree, except general education courses are not required. English and mathematics proficiency required. (10 additional units)

Interactive & Multimedia Technologies Skills Certificate (24 units)

CAST 52A Introduction to Macromedia Flash (4 units)
CAST 70B Multimedia Design & Authoring (3 units)
CAST 70A Introduction to Adobe Premiere (3 units)
or CAST 70F Introduction to Final Cut Pro
GID 60 Careers in the Visual Arts (2 units)
GID 71 Story Boarding (4 units)
GID 74 Introduction to Digital Art & Graphics (4 units)
GID 80 Introduction to Digital Sound, Video & Animation (4 units)

Web-Based Multimedia Skills Certificate (22 units)

CAST 52A Introduction to Macromedia Flash (4 units)
CAST 52B Advanced Macromedia Flash (4 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 76 Web Publishing Tools: Multimedia (4 units)
COIN 84 Special Web Projects (5 units)

50 percent of the major units must be taken within Computers, Technology & Information Systems Division. A grade of C or better is required in all major classes to obtain a degree or certificate.

one from the following

CIS 60 Introduction to Business Information Systems (5 units)
CNET 50 Fundamentals of Data Communication & Networking (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 (39 units)

CIS 27A Computer Science I: JAVA (5 units)
CIS 68A Introduction to UNIX (5 units)
CIS 68E Introduction to PERL (5 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 (4 units)
COIN 78 eXtensible Markup Language (XML) (5 units)

and one from the following

COIN 86 Server Side Programming with JSP (5 units)
COIN 91 Introduction to Database-Driven Web Sites (5 units)
COIN 92 Database-Driven Web Sites: Step By Step (5 units)

Web Administration Career Certificate (37 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)
CIS 68E Introduction to PERL (5 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 66 WWW Server Management (3 units)
COIN 68 Introduction to CGI Using PERL (4 units)
COIN 91 Introduction to Database-Driven Web Sites (5 units)
or COIN 92 Database-Driven Web Sites: Step By Step

Web Publishing Skills Certificate (22 units)

COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 63 Advanced Topics in Web Publishing (5 units)
COIN 70A Introduction to Programming Using JavaScript (4 units)
or COIN 70B Using JavaScript

COIN 74 Web Publishing Tools: DreamWeaver (3 units)
COIN 84 Special Web Projects (5 units)

Web Publishing Career Certificate (37 units)

CAST 52A Introduction to Macromedia Flash (4 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 63 Advanced Topics in Web Publishing (5 units)
COIN 70A Introduction to Programming Using JavaScript (4 units)
or COIN 70B Using JavaScript
COIN 74 Web Publishing Tools: DreamWeaver (3 units)
COIN 76 Web Publishing Tools: Multimedia (4 units)
COIN 82 Images for the Web (3 units)
COIN 84 Special Web Projects (5 units)
GID 56 Web Site Design (4 units)

Web-Based Multimedia Skills Certificate (22 units)

CAST 52A Introduction to Macromedia Flash (4 units)
CAST 52B Advanced Macromedia Flash (4 units)

COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 76 Web Publishing Tools: Multimedia (4 units)
COIN 84 Special Web Projects (5 units)
50 percent of the major units must be taken within Computers, Technology & Information Systems Division. A grade of **C** or better is required in all major classes to obtain a degree or certificate.

JAPANESE

AA Degree & Certificate

Units required for major: 36, for certificates: 28-43

Associate Degree Requirements*

Core Courses (36 units)

JAPN 1-2-3 Elementary Japanese (5-5-5 units)†

JAPN 4-5-6 Intermediate Japanese (5-5-5 units)

JAPN 13A-B Intermediate Conversation I-II (3-3 units)

†For students who can demonstrate proficiency equivalent to one year of college Japanese, JAPN 1, 2 and 3 can be eliminated from the core courses.

Support Courses

JAPN 14A-B Advanced Conversation I-II (3-3 units)

JAPN 25A-B Advanced Composition & Reading (4-4 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 Information

Certificate of Japanese Language Achievement (28 units)

JAPN 1-2-3 Elementary Japanese (5-5-5 units)†

JAPN 13A-B Intermediate Conversation I-II (3-3 units)

JAPN 14A Advanced Conversation I (3 units)

JAPN 33 Japanese Culture (4 units)

Certificate of Japanese Language Proficiency (36 units)

JAPN 1-2-3 Elementary Japanese (5-5-5 units)†

JAPN 4-5-6 Intermediate Japanese (5-5-5 units)

JAPN 13A-B Intermediate Conversation I-II (3-3 units)

Certificate of Achievement in Japanese Tutoring (43 units)

JAPN 1-2-3 Elementary Japanese (5-5-5 units)†

JAPN 4-5-6 Intermediate Japanese (5-5-5 units)

JAPN 13A-B Intermediate Conversation I-II (3-3 units)

JAPN 14A Advanced Conversation I (3 units)

JAPN 33 Japanese Culture (4 units)

LAW & SOCIETY (PRE-LAW)

AA Degree

Units required for the major: 30

Associate Degree Requirements*

SOC 15 Law & Society (4 Units)

Core Courses (13 units minimum)

BUSI 18 Business Law I (4 units)

PHIL 2 Introduction to Social & Political Philosophy (4 units)

POLI 2 Comparative Government & Politics (4 units)

SOC 1 Introduction to Sociology (5 units)

Support Courses (9 units minimum)

BUSI 19 Business Law II (4 units)

PHIL 8 Ethics (5 units)

POLI 1 American Government (5 units)

POLI 15 International Relations/World Politics (4 units)

SOC 40 Aspects of Marriage & Family (4 units)

Electives (4 units minimum)†

BUSI 53 Survey of International Business (4 units)

ECON 1A Principles of Economics (Macro) (5 units)
or ECON 1B Principles of Economics (Micro)

ECON 25 Introduction to the Global Economy (4 units)

HIST 4A History of Western Civilization (4 units)

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

LEADERSHIP & COMMUNITY SERVICE

Certificate

Units required for certificate: 31

Certificate Requirements

Core courses; elective courses; field placement (360 hours); eligibility for ENGL 1A or ESL 26 and MATH 103 or 105. Upon completion of coursework and field placement, obtain application for certificate at Counseling or Student Activities offices. Complete application and submit a reflection paper answering a series of questions regarding the experience. Applications reviewed by certificate review committee: Student activities director, student activities staff and a counselor. The certificate is issued through the Counseling Division by the Student Activities Office. Transcript notation is issued upon completion of all requirements.

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)

CNSL 86LX Leadership Lab (1 unit)

CNSL 86LY Leadership Lab (2 units)

CNSL 86LZ Leadership Lab (3 units)

CRLP 70 Self-Assessment (3 units)

CRLP 75A Career Mentoring (3 Units)

or CRLP 75B Career Mentoring (1 unit)

or CRLP 75C Career Mentoring (1 unit)

CRLP 76A Women in Transition (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

*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.

LINGUISTICS

AA Degree

Units required for major: 32, for certificate: 12

Associate Degree Requirements*

Core Courses (32 units)

ENGL 1B Composition, Critical Reading & Thinking (5 units)
ENGL 23 Modern English: Function & Grammar (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)

ENGL 26 Language, Mind & Society (4 units)

Any three five-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)

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

PSYC 14 Childhood & Adolescence (4 units)

SOC 30 Social Psychology (4 units)

SPCH 2 Interpersonal Communication (5 units)

SPCH 12 Intercultural Communication (4 units)

Certificate Information:

Linguistics (12 units)

ENGL 23 Modern English: Function & Grammar (4 units)

ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)

ENGL 26 Language, Mind & Society (4 units)

MATHEMATICS

AS Degree

Units required for major: 45

Associate Degree Requirements*

Prerequisite: MATH 49 or equivalent.

Core Courses (45 units)

MATH 1A-B-C-D Calculus (5-5-5-5 units)

MATH 2A Differential Equations (5 units)

MATH 2B Linear Algebra (5 units)

MATH 22 Discrete Mathematics (5 units)

and any two courses selected from:

PHYS 2A-B-C General Physics (5-5-5 units)

or any two courses selected from:

PHYS 4A-B-C General Physics (Calculus) (5-5-5 units)

or any two courses selected from:

CHEM 1A-B-C General Chemistry (5-5-5 units)

or any two courses selected from:

CIS 15A-B-C Computer Science I-II-III: C++ (5-5-5 units)

CIS 27A-B-C Computer Science I-II-III: JAVA (5-5-5 units)

Recommended Courses

MATH 10 Elementary Statistics (5 units)

MATH 11 Finite Mathematics (5 units)

A grade of C or higher is required in all courses used to satisfy the requirements of this major.

Check transfer institution for required level of physics. Applied Mathematics majors should enroll in the Physics 4 series.

50 percent of the major units must be taken within the Physical Sciences, Mathematics & Engineering Division at Foothill College. A grade of C or better is required in all major courses to obtain a degree or certificate.

MUSIC/GENERAL

AA Degree & Certificate

Units required for major: 51-57, for certificate: 36

Associate Degree Requirements*

Core Courses (39-45 units)

MUS 2A-B-C Great Composers & Music Masterpieces of Western Civilization (4-4-4 units)

MUS 3A-B-C Music Theory, Literature, & Composition (5-5-5 units)

MUS 12A-B-C Piano (2-2-2 units)†

†*This requirement may be waived upon satisfactory completion of the keyboard proficiency exam, administered by the music department chair.*

MUSP 41A-B-C Applied Music (2-2-2 units)

and select three from the following:

MUSP 19-40, 42, 45, 49 Ensembles (2-2-2 units)

Required Support Courses (12 units minimum)

Composition Emphasis (12 units)

MUS 35 Department Honors Project in Composition (2 units)
(To be taken a total of 4 times)

MUS 66A Introduction to Electronic Music: Songwriting (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-E-F Applied Music (2-2-2 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)

MUSIC TECHNOLOGY

AA Degree & Certificate

Units required for major: 48, for certificates: 36-48

Associate Degree Requirements*

Core Courses (36 units)

MUS 50A Music Business (4 units)

MUS 64A Musical Styles & Analysis (4 units)
or MUS 64B Musical Styles & Analysis
or MUS 64C Musical Styles & Analysis

MUS 85A Music & Media: Thomas Edison to the Beatles (4 units)

MUS 85B Music & Media: The Beatles to Today (4 units)

MUS 66A Introduction to Electronic Music: Songwriting (4 units)

MUS 66B Introduction to Electronic Music: Production (4 units)

MUS 60 Producing in the Home Studio with Pro Tools® (4 units)
or MUS 80 Recording Arts I: Sound Reinforcement

MUS 81A Recording Arts II: Digital Audio Production (4 units)

MUS 81B Recording Arts II: Audio for Video (4 units)

Support Courses (12 units from any of the following)

Music

MUS 64A Musical Styles & Analysis: Jazz & Swing (4 units)

MUS 64B Musical Styles & Analysis: Funk & Fusion (4 units)

MUS 64C Musical Styles & Analysis: Salsa & Latin Jazz (4 units)

MUS 50B Entertainment Law & New Media (4 units)

MUS 66C Mixing & Mastering (4 units)

MUS 82A Mixing & Mastering (4 units)

MUS 82B Pro Tools 101 (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)

MUS 59 Contemporary Harmony (4 units)

Music Performance

MUSP 41A-B-C Applied Music & Multimedia Training (4-4-4 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 53 Creative Typography (4 units)

GID 80 Introduction to Digital Sound, Video & Animation (4 units)

GID 84 Motion Graphics (4 units)

GID 56 Web Site Design (4 units)

Photography

PHOT 1 Beginning Photography (4 units)

PHOT 2 Intermediate Photography (4 units)

PHOT 5 Introduction to Photographic Expression (4 units)

PHOT 10 History of Photography (4 units)

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
or RAD 90C News & Information Production
or RAD 90D News & Information Production

RAD 92A Radio Programming & Production (4 units)
or RAD 92B Radio Programming & Production
or RAD 92C Radio Programming & Production
or RAD 92D Radio Programming & Production

Video Arts

VART 1 Introduction to Film Studies (4 units)

VART 3 American Cinema (4 units)

VART 20 Digital Video I: Concepts & Techniques (4 units)

VART 21 Digital Video II: Advanced Topics (4 units)

Certificate Information

Career Certificate (48 units)

The same requirements for an 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)

Requires only the core music technology courses. A GPA of 2.0 or higher in these courses is required for the certificate.

PARAMEDIC

Certificate & Optional AS Degree

Units required for certificate: 60.5

Prerequisites

High school diploma or GED certificate; current BLS (CPR) certification; possess a current EMT-IA certificate or EMT-1 with transport module or equivalent; a minimum of six months full-time or equivalent part-time experience with an EMS provider agency (960 hr); meet technical standards; MATH 101 or equivalent college-level course within the past three years or placement into MATH 105 on the Foothill College Assessment Test; eligible for ESL 25 or ENGL 110. For assessment services, call **(650) 949-6958**.

Physical examinations and immunizations are required to attend most clinical internships. Background screening and drug testing may be required by clinical facilities. Positive results could impact a student's chances of attending clinics, completing the program requirements or gaining a license to practice upon graduation. The cost of required physical examinations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

Career Certificate Requirements (60.5 units)

EMTP 100A-B-C Mobile Intensive Care Paramedic Program I-II-III (14-13-12 units)

EMTP 102 Hospital-Clinical Experience (3.5 units)

EMTP 103A Mobile Intensive Care Paramedic Program: Ambulance Field Internship (9 units)

Optional Associate Degree Requirements*

Career certificate requirements (60.5 units)

BIOL 40A, B and C (15 units)

Electives & other graduation requirements as appropriate.

Additional Information

All paramedic classes meet at the Foothill College Middlefield Campus: 4000 Middlefield Road, Suite I, Palo Alto, CA 94303. For counseling information, call **(650) 949-6965**.

*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.

PERSONAL TRAINER

Certificate

Units required for certificate: 26

Required Courses (26 units)

PT 51 Basic Nutrition for Sports & Fitness (3 units)

PT 52 Strength Fitness (3 units)

PT 53 Personal Fitness Trainer Internship (6 units)

PT 54 Techniques of Fitness Assessment (3 units)

PT 55 Concepts of Exercise Physiology for Fitness (4 units)

HP 67A Prevention of Athletic Injuries (3 units)

HP 67B Emergency Athletic Injury Care (3 units)

HP 3B Functional Fitness (1 unit)

Recommended Courses

BIOL 40A-B-C Human Anatomy & Physiology (5-5-5 units)

HP 67C Treatment & Rehabilitation of Athletic Injuries (3 units)

PHARMACY TECHNICIAN

AS Degree & Career Certificate

Units required for major: 50, for certificate: 50

Associate Degree Requirements*

Certificate Information

Program information, admission criteria and applications can be found at www.foothill.edu/bio/programs/pharmtec

Prerequisites

High school diploma or equivalency; BIOL 10 or high school biology; math proficiency: high school algebra, MATH 101 or placement into MATH 105 on the Foothill College assessment test; English proficiency: eligible for ESL 25 or ENGL 110 as determined by the English Proficiency Test. For assessment services, call **(650) 949-7230** for math and English; PHT 200L

Physical examinations and immunizations are required to attend most clinical internships. Background screening and drug testing may be required by clinical facilities. Positive results could impact a student's chances of attending clinics, completing the program requirements or gaining a license to practice upon graduation. The cost of required physical examinations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

Required Courses (50 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 unit)

or PHT 62A Hospital Clinical

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)

PHT 60A Retail Clinical (1 unit)

or PHT 60B Retail Clinical

or PHT 62A Hospital Clinical

or PHT 62B Hospital Clinical

Spring Quarter

PHT 55B Pharmacology B (6 units)

PHT 56B Dispensing & Compounding B (3 units)

PHT 60A Retail Clinical (1 unit)

or PHT 60B Retail Clinical

PHT 61 Home Healthcare Supplies (3 units)

PHT 62A Hospital Clinical (1 unit)

or PHT 62B Hospital Clinical

PHILOSOPHY

AA Degree

Units required for major: 34

Associate Degree Requirements*

Core Courses (18 units minimum)

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)

Support Courses (8 units minimum)

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)

Electives (8 units minimum)†

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)

POLI 3 Introduction to Political Philosophy (5 units)

POLI 9 Political Economy (4 units)

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

PHOTOGRAPHY & DIGITAL IMAGING

AA Degree & Certificate

Units required for major: 38, for certificates: 11-38

Associate Degree Requirements*

Core Courses (18 units)

ART 5A Basic Two-Dimensional Design (3 units)

concurrent with ART 5AX Design Critique Seminar (1 unit)

PHOT 1 Beginning Photography (3 units)

or PHOT 5 Introduction to Photographic Expression

PHOT 10 History of Photography (4 units)

PHOT 65A Introduction to Digital Imaging (4 units)

PHOT 57 Photographic Portfolio (3 units)

Degree Specific Required Courses

Select Option #1 or Option #2:

Option #1: Traditional Photography (20 units)

PHOT 2 Intermediate Photography (3 units)

PHOT 50 Advanced Photography (3 units)

PHOT 70 Introduction to Color Photography (3 units)

and

Minimum of 11 units of elective courses from the list provided.

Option #2: Digital Imaging (20 units)

PHOT 65B Intermediate Digital Imaging (4 units)

PHOT 65C Advanced Digital Imaging (4 units)

PHOT 71 The Photographic Book (3 units)

and

Minimum of 9 units of elective courses from the list provided.

Elective Courses

ART 6 Collage & Composition (3 units)

ART 20A Color (3 units)

PHOT 1 Beginning Photography (3 units)

PHOT 1LX General Photography Production Lab (1 unit)†

PHOT 2 Intermediate Photography (3 units)

PHOT 2LX Intermediate Photo Production Lab (1 unit)

PHOT 5 Introduction to Photographic Expression (3 units)

PHOT 10 History of Photography (4 units)

PHOT 11 Contemporary Issues in Photography (3 units)

PHOT 13 Experimental Photography (3 units)

PHOT 34 Honors Program Seminar in Photography (1 unit)

PHOT 50 Advanced Photography (3 units)

PHOT 51 Zone System Photography (3 units)

PHOT 53 Introduction to Color Slide (3 units)

PHOT 55 Special Projects in Photography (2 units)

PHOT 60 Photography & the New Technologies (3 units)

PHOT 63 Photojournalism (3 units)

PHOT 65A Introduction to Digital Imaging (4 units)

PHOT 65B Intermediate Digital Imaging (4 units)

PHOT 65C Advanced Digital Imaging (4 units)

PHOT 68 Special Topics (1 unit)

PHOT 70 Introduction to Color Photography (3 units)

PHOT 71 The Photographic Book (3 units)

PHOT 72 Digital Camera Technique (3 units)

PHOT 74 Studio Photography Techniques (3 units)

PHOT 75 Introduction to Computer Graphics (4 units)

PHOT 78 Field Studies in Photography (1 unit)

PHOT 125 Photographic Laboratory Management (3 units)

PHOT 130 Presenting, Preserving & Restoring Photographs (3 units)

PHOT 150-X-Y- Z Photography Production Laboratory (.5-3 units)†

PHOT 180-X-Y- Z Photographic Practices (.5-3 units)†

PHOT 190-X-Y- Z Directed Study (.5-3 units)†

Some courses listed as electives are already required in one or the other of the emphases.

†Maximum of 3 units of lab may be used toward an A.A. degree or certificate.

Certificate Information

Career Certificate (38 units)

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

Certificate of Completion: Traditional Photography (27 units)

ART 5A Basic Two-Dimensional Design (3 units)
concurrent with ART 5AX Design Critique Seminar (1 unit)

PHOT 1 Beginning Photography (3 units)

PHOT 2 Intermediate Photography (3 units)

PHOT 10 History of Photography (4 units)

PHOT 50 Advanced Photography (3 units)

PHOT 65A Introduction to Digital Imaging (4 units)

PHOT 70 Introduction to Color Photography (3 units)

Plus elective(s) from elective list (3 units)

Certificate of Completion: Digital Imaging (29 units)

ART 5A Basic Two-Dimensional Design (3 units)
Concurrent with ART 5AX Design Critique Seminar (1 unit)

PHOT 1 Beginning Photography or (3 units)

PHOT 5 Introduction to Photographic Expression (3 units)

PHOT 10 History of Photography (4 units)

PHOT 65A Introduction to Digital Imaging (4 units)

PHOT 65B Intermediate Digital Imaging (4 units)

PHOT 65C Advanced Digital Imaging (4 units)

PHOT 71 The Photographic Book (3 units)

PHOT 75 Introduction to Computer Graphics (3 units)

Skills Certificate: Photographic Lab Technician (11 units)§

PHOT 1 Beginning Photography (3 units)

PHOT 1LX General Photography Production Laboratory (2 units)
or PHOT 150 Photography Production Laboratory
and/or PHOT 180 Photographic Practices or equivalent

PHOT 2 Intermediate Photography (3 units)

PHOT 70 Introduction to Color Photography (3 units)

or PHOT 53 Introduction to Color Slides (3 units)

§Plus 50 hours of work experience verified by employer or
volunteer supervisor.

PHYSICAL EDUCATION/ HUMAN PERFORMANCE

AA Degree

Units required for major: 33

Associate Degree Requirements*

Core Courses (33 units)

HP 1 Introduction to Physical Education (4 units)

HP 37 Theories & Techniques of Coaching Sports (3 units)
or HP 70 Theory of Dance

HP 67B Emergency Athletic Injuries (3 units)

BIOL 10 General Biology (5 units)
or BIOL 14 Human Biology

SOC 21 Psychology of Women & Sex Differences (4 units)
or PSYC 22 Psychology of Prejudice

*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.

HP 48 Concepts of Physical Fitness & Wellness (4 units)
PSYC 55 Sports Psychology (4 units)
and 6 units of any Human Performance activity courses

Recommended Electives

HP 67A Prevention of Athletic Injuries (3 units)
HP 67C Treatments & Rehabilitation of Athletic Injuries (3 units)
BIOL 40A-B-C Functional Anatomy & Physiology (5-5-5 units)
CHEM 25 Fundamentals of Chemistry (5 units)
or CHEM 30A Survey of Inorganic & Organic Chemistry (5 units)
HP 12 Lifeguard Training (4 units)
HP 4 Athletic Officiating (3 units)
PSYC 1 General Psychology (5 units)
HP 70 Theory of Dance (3 units)

Students should review the catalog of the transfer institution of their choice regarding lower-division requirements.

PHYSICAL EDUCATION/ HUMAN PERFORMANCE EMPHASIS: ATHLETIC INJURY CARE

AS Degree

Units required for major: 41

Associate Degree Requirements*

Core Courses (41 units)

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

Recommended Electives

CHEM 1A-B-C General Chemistry (5-5-5 units)
HLTH 5 Advanced First Aid (4 units)
MATH 10 Elementary Statistics (5 units)
PHYS 2A-B-C General Physics (5-5-5 units)
PSYC 1A General Psychology (5 units)

PHYSICS

AS Degree

Units required for major: 55

Associate Degree Requirements*

Prerequisites: One year high school physics or PHYS 2A and 2B or PHYS 6 or equivalent; MATH 1A or equivalent; CHEM 25 or equivalent.

Core Courses (55 units)

CHEM 1A General Chemistry (5 Units)
MATH 1B-C-D Calculus (5-5-5 Units)
MATH 2A Differential Equations (5 Units)
MATH 2B Linear Algebra (5 Units)
PHYS 4A General Physics-Calculus (5 Units)
PHYS 4B-B-C General Physics-Calculus (5-5-5 Units)

50 percent of the major units must be taken within the Physical Sciences, Mathematics & Engineering Division at Foothill College. A grade of **C** or better is required in all major courses to obtain a degree or certificate.

POLITICAL SCIENCE

AA Degree

Units required for major: 35

Associate Degree Requirements*

Core Courses (18 units)

POLI 1 American Government (5 units)
POLI 2 Comparative Government & Politics (4 units)
POLI 3 Introduction to Political Science (5 units)
POLI 15 International Relations (4 units)

Support Courses (9 units minimum)

ECON 1A Principles of Economics (Macro) (5 units)

HIST 9 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)

POLI 9 Political Economy (4 units)

Electives (8 units minimum)†

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)

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

PRIMARY CARE ASSOCIATE

AS Degree & Certificate

Units required for major: 84, for certificate: 84

Associate Degree Requirements*

Application Deadline: Oct. 1

Prerequisites

Applicants must complete the following courses at a regionally accredited institution in the United States with a grade of **C** or better: human anatomy with lab; human physiology with lab; microbiology with lab; intermediate algebra: one year of high school or one college course or equivalent; introductory chemistry: one year of high school or one college course; English composition: ENGL 1A or equivalent; introduction to sociology or introduction to cultural anthropology; general psychology. Clinical prerequisite: a minimum of 3,000 hours of direct patient care experience must be completed by the application deadline. Note: anatomy, physiology, and microbiology must be completed by application date.

Physical examinations and immunizations are required to attend most clinical internships. Background screening and drug testing may be required by clinical facilities. Positive results could impact a student's chances of attending clinics, completing the program

*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.

requirements or gaining a license to practice upon graduation. The cost of required physical examinations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

Fall Quarter

PC 80 Family Medicine Didactic (14 units)
PC 80P Family Medicine Clinical (5 units)

Students attend classes at Stanford Monday–Thursday. Fridays are spent in preceptorships.

Winter Quarter

PC 81 Family Medicine Didactic (8 units)
PC 81P Family Medicine Clinical (8 units)

Students are in preceptorships 12 days per month and attend classes Monday–Friday the first week of each month.

Spring Quarter

PC 82 Family Medicine Didactic (8 units)
PC 82P Family Medicine Clinical (9 units)

Students spend 14 days per month in preceptorships and attend classes Monday–Friday the first week of each month.

Summer Session

PC 83 Family Medicine Didactic (6 units)
PC 83P Family Medicine Clinical (9 units)

Students spend 14 days per month in their preceptorship and attend classes Monday–Friday the first week of each month.

Fall Quarter (5th Quarter)

PC 84 Family Medicine Didactic (8 units)
PC 84P Family Medicine Clinical (9 units)

Students continue didactic and preceptorship activities (14 days/month).

Supplemental courses offered only by special arrangement.

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)

Questions regarding general education and prerequisite requirements can be answered by Sandi Urabe in the Counseling Office. To schedule an appointment with Ms. Urabe, call (650) 949-7423.

PSYCHOLOGY

AA Degree

Units required for major: 33

Associate Degree Requirements*

PSYC 1 General Psychology (5 units)

Core Courses (16 units minimum)

MATH 10 Elementary Statistics (5 units)
PSYC 10 Introduction to Social Research (4 units)
PSYC 14 Childhood & Adolescence (4 units)
PSYC 21 Psychology of Women: Sex & Gender Differences (4 units)
PSYC 22 Psychology of Prejudice (4 units)
PSYC 25 Introduction to Abnormal Psychology (4 units)
PSYC 30 Social Psychology (4 units)

PSYC 33 Introduction to the Concepts of Personality (4 units)

PSYC 40 Human Development (4 units)

PSYC 49 Human Sexuality (4 units)

Support Courses (12 units minimum)†

ANTH 2A Cultural Anthropology (4 units)

BIOL 10 General Biology (5 units)
or BIOL 14 Human Biology

HIST 4C History of Western Civilization (4 units)
or HIST 9 History of Contemporary Europe

PSYC 4 Introduction to Psychobiology (4 units)

PSYC 48 Psychology of the Unconscious (4 units)

PSYC 55 Psychology of Sports (4 units)

SOC 40 Aspects of Marriage & Family (4 units)

WMN 5 Introduction to Women's Studies (4 units)

†May also uses courses listed as core courses for support courses.

RADIATION THERAPY TECHNOLOGY

AS Degree

Units required for major: 103

Associate Degree Requirements*

Prerequisites

High School graduation or a valid G.E.D.; grade point average of 2.5; eligibility for ESL 26 or ENGL 1A; high school algebra with a C or better, or MATH 101, or placement into MATH 105 on Foothill Assessment Test; high school biology or BIOL 10 with a C or better; high school chemistry or CHEM 30A with a C or better; AHS 200 or medical terminology with a C or better; RTT 200L with a C or better; all prerequisites must be completed by application deadline.

Physical examinations, immunizations, background screening and drug testing are required to attend clinical internships. Positive results on background checks and drug testing could impact a student's ability to attend clinics, complete the program requirements or gain a license to practice upon graduation. The cost of required physical examinations, immunizations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

First Year (51 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 (16 Clinical hours per week) (3 units)

BIOL 40A Functional Anatomy & Physiology (4 units)

PSYC 1 General Psychology (3 units) (may be taken in any quarter)

Winter Quarter

RTT 58B Fundamentals of Radiologic Technology for Radiation Therapists (3 units)

RTT 59B Radiation Oncology & Pathology (3 units)

RTT 71B Clinical Practicum (16 Clinical hours per week) (3 units)

BIOL 40B Functional Anatomy & Physiology (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.

Spring Quarter

RTT 61A Radiation Therapy Physics (3 units)
RTT 72A Dosimetry I (3 units)
RTT 71C Clinical Practicum (16 Clinical hours per week) (3 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)

Second Year (52 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 (11 weeks)

RTT 73D Clinical Practicum (32 Clinical hours per week) (7 units)
RTT 63C Radiation Oncology III (3 units)

A computer competency course is required for all radiation therapy technology students before graduation. Contact the Radiation Therapy Program by e-mail at www.fhradiationtherapy@fhda.edu or call (650) 949-7595.

SPCH 30 Oral Interpretation (4.5 units)

SPCH 46 Voice & Diction (4 units)

Broadcast Journalism

CIS (one 4 unit CIS course) (4 units)
ENGL 4 Journalism (4 units)
SPCH 1A Public Speaking (4.5 units)
SPCH 46 Voice & Diction (4 units)
SPCH 55 Professional & Career Communication (4 units)

Broadcast Business Sales

ACTG 1A Financial Accounting I (5 units)
ADVT 57 Principles of Advertising (4 units)
or BUSI 57 Principles 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 Principles of Advertising (4 units)
or BUSI 57 Principles of Advertising (4 units)
BUSI 22 Principles 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)
SPCH 1A Public Speaking (4.5 units)
SPCH 55 Professional & Career Communication (4 units)

Certificate Information:**Career Certificate:**

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

Skills Certificate

Granted after completion of a minimum 15 units (or more) from the support courses in one emphasis.

RADIO BROADCASTING**AA Degree & Certificate**

Units required for major: 37, for certificates: 15-37

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)

RAD LAB: any 4 of the following courses (12 units)

RAD 90B-C-D News & Information (3-3-3 units)
RAD 91A-B-C-D Sales & Marketing (3-3-3-3 units)
RAD 92A-B-C-D Programming & Production (3-3-3-3 units)
RAD 93A-B-C-D Industry Relations & Engineering (3-3-3-3 units)

Support Courses (15 units 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)
MUS 80 Recording Arts I: Sound Reinforcement (4 units)
SPCH 1A Public Speaking (4.5 units)
SPCH 24 Readers' Theatre (4.5 units)

RADIOLOGIC TECHNOLOGY**AS Degree**

Units required for major: 107.5

Associate Degree Requirements*

Physical examinations, immunizations, background screening and drug testing are required to attend clinical internships. Positive results on background checks and drug testing could impact a student's ability to attend clinics, complete the program requirements or gain a license to practice upon graduation. The cost of required physical examinations, immunizations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

Recommendation

BIOL 40A, 40B & 40C are strongly recommended before entrance into the program. Anatomy and physiology studied in a language other than English will not be considered.

Prerequisites

High school graduation or a valid G.E.D.; grade point average of 2.5 or higher; high school algebra or MATH 101, or equivalent college-level course with a C or better within the past three years,

*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.

or completion of a higher math, or placement into MATH 105 on the Foothill College assessment test; high school biology or BIOL 10 with a grade of **C** or better; high school chemistry or CHEM 30A, CHEM 25 or CHEM 10 with a grade of **C** or better; AHS 200 or medical terminology with a grade of **C** or better; RT 200L or equivalent with a grade of **C** or better; eligibility for ESL 26 or ENGL 1A. Prerequisites must be completed by the end of Winter Quarter of the year of application.

First Year

Summer Session

RT 50 Orientation to Radiation Science Technology (2 units)
RT 53 Orientation to Radiologic Technology (1 unit)

Fall Quarter

RT 50A Law & Ethics in Medical Imaging (2 units)
RT 51A Fundamentals of Radiologic Technology (4 units)
RT 52A Principles of Radiologic Technology (3 units)
RT 53A Applied Radiographic Technology (1.5 units)
RT 53AL Applied Radiographic Technology (1 unit)
BIOL 40A Functional Anatomy & Physiology (5 units)

Winter Quarter

RT 50B Basic Patient Care for Imaging Technology (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)
BIOL 40B Functional Anatomy & Physiology (5 units)

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 72 Venipuncture (2 units)
BIOL 40C Functional Anatomy & Physiology (5 units)
PSYC 1 General Psychology (5 units)†

†may be completed in any quarter of the first year

Summer Session (8 weeks)

RT 51D Fundamental of Radiologic Technology (3 units)
RT 52D Principles of Radiologic Technology (2 units)
RT 53D Radiographic Clinical Practicum (5 Units)

Second Year

Fall Quarter

RT 62A Radiographic Positioning (3 units)
RT 63A Radiographic Clinical Practicum (7.5 units)
RT 64 Fluoroscopy (3 units)

Winter Quarter

RT 61B Radiology Research Project (1 unit)
RT 62B Special Procedures & Equipment (3.5 units)
RT 63B Radiographic Clinical Practicum (7.5 units)
RT 65 Mammography (3 units)

Spring Quarter

RT 62C Advanced Radiographic Principles (3 units)
RT 63 Advanced Radiographic Principles (3 units)
RT 63C Radiographic Clinical Practicum (7.5 units)

Counseling: All prospective applicants are required to meet with Program Counselor Bryan Shaner. For an appointment, call (650) 949-7423.

A computer competency course or equivalency is required for all radiologic technology students.

REAL ESTATE

AA Degree & Certificate

Units required for major: 32, for certificates: 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)

Certificate Information:

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

Real Estate Broker Career Certificate (32 units)

This certificate is awarded after completion of the core courses (32 units) required for the A.A. degree. This certificate meets the California Department of Real Estate course requirements for a broker license.

Real Estate Salesperson Career Certificate (12 units)

This certificate meets the California Department of Real Estate course requirements for a salesperson license.

Certificate Courses (8 units)

R E 50 Principles of Real Estate (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)

*55 percent of certificate coursework must be completed at Foothill College. Core coursework must be completed with a grade of **C** or better.*

RESPIRATORY THERAPY

AS Degree

Units required for major: 103

Associate Degree Requirements*

Physical examinations, immunizations, background screening and drug testing are required to attend clinical internships.

Positive results on background checks and drug testing could impact a student's ability to attend clinics, complete the program requirements or gain a license to practice upon graduation. The cost of required physical examinations, immunizations, background screenings and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

*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.

Prerequisites

Selective admission into the Respiratory Therapy Program is based on the following: high school graduation or equivalency; grades of C or higher in high school biology, chemistry and algebra or their equivalent; eligibility for ESL 26 or ENGL 1A; letter grades of C or better are required for all courses taken as prerequisites, general education and major requirements; compliance with technical standards.

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 (5 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)
- PSYC 1 General Psychology (5 units)

Winter Quarter

- RSPT 60B Advanced Cardiac Life Support (2 units)
- RSPT 63A 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)

Optional

- RSPT 71-72-73A-G Extended Clinical Internships (2 units each)
(offered each quarter)
- RSPT 190-X-Y-Z Directed Studies (.5-2 units)

SOCIOLOGY

AA Degree & Certificate

Units required for major: 30, for certificate: 13 – 26

Associate Degree Requirements*

- SOC 1 Introduction to Sociology (5 units)

Core Courses (12 units minimum)

- SOC 10 Introduction to Social Research (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 minimum)

- ANTH 2A Cultural Anthropology (4 units)
- ECON 1A Principles of Economics (Macro) (5 units)
- GEOG 10 World Regional Geography (4 units)
- HIST 4A History of Western Civilization (4 units)
or HIST 4B History of Western Civilization
or HIST 4C History of Western Civilization
- 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 Information:

For certificate request forms at bss.foothill.fhda.edu/certificates.

Certificate of Achievement in Sociology (13 units)

Required Course (5 units)

- SOC 1 Introduction to Sociology (5 units)

Core Courses (4 units minimum)

- SOC 10 Introduction to Social Research (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 (4 units minimum)

ANTH 2A Cultural Anthropology (4 units)
ECON 1A Principles of Economics (Macro) (5 units)
GEOG 10 World Regional Geography (4 units)
HIST 4A History of Western Civilization (4 units)
or HIST 4B History of Western Civilization
or HIST 4C History of Western Civilization
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 minimum)

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 minimum)

BUSI 18 Business Law (4 units)
HLTH 21 Health Education (3 units)
PSYC 22 Psychology of Prejudice (4 units)
SOC 30 Social Psychology (4 units)
SOSC 36 Special Projects (1-4 units)
SPCH 12 Intercultural Communication (4 units)
WMN 5 Introduction to Women's Studies (4 units)

55 percent of certificate coursework must be completed at Foothill College. Core coursework toward certificates must be completed with a grade C or better.

SPANISH

AA Degree

Units required for major: 36, for certificates: 15-36

Associate Degree Requirements*

Core Courses (36 units)

SPAN 1-2-3 Elementary Spanish (5-5-5 units)†
SPAN 4-5-6 Intermediate Spanish (5-5-5 units)
SPAN 13A-A Intermediate Conversation I-II (3-3 units)

†For students who can demonstrate proficiency equivalent to one year of college Spanish, SPAN 1, 2 and 3 can be eliminated from the core courses.

Support Courses

SPAN 10A Spanish for Heritage Speakers (5 units)
SPAN 14A-B Advanced Conversation I-II (3-3 units)
SPAN 25A-B Advanced Composition & Reading (4-4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)

Certificate Information

Certificate of Spanish Language Completion (15 units)

SPAN 1-2-3 Elementary Spanish (5-5-5 units)†

Certificate of Spanish Language Achievement (27 units)

SPAN 1-2-3 Elementary Spanish (5-5-5 units)†

SPAN 13A-A Intermediate Conversation I-II (3-3 units)

SPAN 14A-B Advanced Conversation I-II (3-3 units)

Certificate of Spanish Language Proficiency (36 units)

SPAN 1-2-3 Elementary Spanish (5-5-5 units)†

SPAN 4-5-6 Intermediate Spanish (5-5-5 units)

SPAN 13A-A Intermediate Conversation I-II (3-3 units)

SPECIAL EDUCATION

AA Degree & Career Certificate

Units required for major: 34, for certificate: 26

Associate Degree Requirements*

Core Courses (26 units)

SPED 57 Working with Special Populations (2 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)

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)
MATH 10 Elementary Statistics (5 units)
PSYC 1 General Psychology (5 units)
PSYC 25 Introduction to Abnormal Psychology (4 units)
SPCH 1A Public Speaking (4.5 units)
SPCH 52 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)

Certificate Information

Special Education Paraprofessional Career Certificate (26 units)

SPED 59 Selected Topics in Special Education (2 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)

*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.

SPEECH COMMUNICATION

AA Degree & Certificate

Units required for major: 27, for certificate: 12-17

Associate Degree Requirements*

Core courses from one concentration (27 units)

General Concentration Core (27 units)

SPCH 1A Public Speaking (4.5 units)

and two of these

SPCH 1B Argumentation & Persuasion (4.5 units)

SPCH 2 Interpersonal Communication (4.5 units)

SPCH 3 Fundamentals of Oral Communication (4.5 units)

SPCH 4 Group Discussion (4.5 units)

SPCH 10 Gender, Communication & Culture (4.5 units)

and three of these

SPCH 6 The Rhetoric of Political Speech (4.5 units)

SPCH 12 Intercultural Communication (4.5 units)

SPCH 53 Forensic Speech & Debate (4.5 units)

SPCH 30 Oral Interpretation of Literature (4.5 units)

SPCH 46 Voice & Diction (4 unit)

SPCH 54-X-Y-Z Intercollegiate Speech & Debate (1.5-4.5 units)

SPCH 55 Professional & Career Communication (4 units)

Intercultural Concentration Core (27 units)

SPCH 12 Intercultural Communication (4.5 units)

SPCH 10 Gender, Communication & Culture (4.5 units)

and two of these

SPCH 1A Public Speaking (4.5 units)

SPCH 1B Argumentation & Persuasion (4.5 units)

SPCH 3 Fundamentals of Oral Communication (4.5 units)

SPCH 4 Group Discussion (4.5 units)

SPCH 53 Forensic Speech & Debate (4.5 units)

SPCH 30 Oral Interpretation of Literature (4.5 units)

SPCH 46 Voice & Diction (4 unit)

SPCH 54-X-Y-Z Intercollegiate Speech & Debate (1.5-4.5 units)

SPCH 55 Professional & Career Communication (4 units)

and one of these

SPCH 6 The Rhetoric of Political Speech (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)

PSYC 22 Psychology of Prejudice (4 units)

SOC 20 Major Social Problems (4 units)

SOSC 20 Cross-Cultural Perspectives: Multi-Cultural Society (4 units)

WMN 11 Women in Global Perspective (4 units)

and one of these

SPCH 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 6 Jewish American 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)

SPCH 1A Public Speaking (4.5 units)

SPCH 1B Argumentation & Persuasion (4.5 units)

and two of these

SPCH 3 Fundamentals of Oral Communication (4.5 units)

SPCH 4 Group Discussion (4.5 units)

SPCH 6 The Rhetoric of Political Speech (4.5 units)

SPCH 10 Gender, Communication & Culture (4.5 units)

SPCH 12 Intercultural Communication (4.5 units)

and two of these

SPCH 2 Interpersonal Communication (4.5 units)

SPCH 53 Forensic Speech & Debate (4.5 units)

SPCH 30 Oral Interpretation of Literature (4.5 units)

SPCH 46 Voice & Diction (4 unit)

SPCH 54-X-Y-Z Intercollegiate Speech & Debate (1.5-4.5 units)

SPCH 55 Professional & Career Communication (4 units)

ENGL 4 Journalism (4 units)

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)

For all concentrations, the following courses may substitute for a speech elective course with the consent of your speech communication faculty advisor.

SPCH 35Z Department Honors Project in Speech (4 units)

SPCH 36Z Special Project in Speech (4 units)

Certificate Information

Certificate of Achievement (12 units minimum)

any three speech courses.

Certificate of Completion (17 units minimum)

two of these

SPCH 1A Public Speaking (4.5 units)

SPCH 2 Interpersonal Communication (4.5 units)

SPCH 3 Fundamentals of Oral Communication (4.5 units)

SPCH 4 Group Discussion (4.5 unit)

SPCH 10 Gender, Communication & Culture (4.5 units)

SPCH 12 Intercultural Communication (4.5 units)

and any additional two speech courses.

Certificate of Proficiency (27 units)

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

THEATRE TECHNOLOGY

AA Degree & Certificate

Units required for major: 43, for certificate: 28-43

Associate Degree Requirements*

Core Courses (19 units)

DRAM 1 Theatre Arts Appreciation (4 units)

DRAM 21A Fundamentals of Theatre Production (4 units)

DRAM 72 Drafting for the Theatre, Film & Television (4 units)

DRAM 49 Rehearsal & Performance (3 units)

GID 74 Introduction to Digital Art and Graphics (4 units)

Support Courses (24 units)

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-C Fundamentals of Theatre Production (4-4 units)

DRAM 49X Rehearsal & Performance (4-5.5 units)
or DRAM 49Y Rehearsal & Performance

DRAM 71 Fundamentals of Stage Management (4 units)

DRAM 72 Drafting for the Theatre, Film & Television (4 units)

CWE 51 Internship in Stage Management (1-8 units)
or DRAM 52 Internship in Stage Management

Emphasis in Stage & Shop Technology

DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)

DRAM 21B-C Fundamentals of Theatre Production (4-4 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 Internship in Stage & Shop Technology (1-8 units)
or CWE 52 Internship in Stage & Shop Technology

Emphasis in Costume Technology

DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)

DRAM 21B-C Fundamentals of Theatre Production (4-4 units)

DRAM 42A Introduction to Scene Design (4 units)

DRAM 75 Introduction to Costume Technology (4 units)

DRAM 76 Introduction to Costume Design (4 units)

CWE 51 Internship in Costume Technology (1-8 units)
or CWE 52 Internship in Costume Technology

Emphasis in Stage Lighting Technology

DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)

DRAM 21B-C Fundamentals of Theatre Production (4-4 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)

CWE 51 Internship in Costume Technology (1-8 units)
or CWE 52 Internship in Costume Technology

Emphasis in Scenic Design & Painting Assistant

DRAM 8 The Multicultural Mosaic of Performing Arts in America (4 units)

DRAM 21B-C Fundamentals of Theatre Production (4-4 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 (3 units)

DRAM 79 Model Building for the Theatre, Film & Television (4 units)

CWE 51 Internship in Costume Technology (1-8 units)
or CWE 52 Internship in Costume Technology

Certificate Programs

Career Certificate (43 units)

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

Skills Certificates (28 units minimum)

Earned with the completion of DRAM 21A and 24 units from courses listed in one area of emphasis.

TRAVEL CAREERS

AA Degree & Certificate

Units required for major: 45, for certificates: 8-52

Associate Degree Requirements*

Core Courses (33 units)

TC 50 Introduction to Travel Careers (2 units)

TC 51 Tourism in North America (4 units)

TC 52 Tourist Centers of Europe (4 units)

TC 53 Global Tourism (4 units)

TC 54 Selling Cruises (4 units)

TC 55 Selling Domestic Travel (4 units)

TC 60 Travel Online (1 unit)

TC 62A Creating Travel Reservations: Basic (2 units)

TC 62B Creating Travel Reservations: Advanced (2 units)

TC 64 Air Ticketing: North America (3 units)

TC 65 Air Ticketing: International (3 units)

Electives (12 units minimum required)

TC 56 Selling Foreign Independent Tours (4 units)

TC 57 Travel Career Seminar (3 units)

TC 58 Selling Group Travel (4 units)

TC 59 Travel Sales Techniques (3 units)

TC 67 Business Travel Reservations (2 units)

TC 68 Leisure Travel Reservations (2 units)

TC 70 Special Worldwide Destinations (4 units)

TC 74 Tour Directing (3 units)

TC 75 Operating Wholesale Tours (3 units)

TC 78 Managing a Travel Business (2 units)

TC 79A-E Tourism Seminar Series (maximum 3 units)

TC 81, 82, or 83 series Destination Specialist Series (maximum 3 units)

CWE 51 Occupational Work Experience (Internship) (1-2 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.

Certificate Information

Certificate of Proficiency (45 units)

This certificate is granted after completion of the required core and elective courses listed above. This certificate also requires eligibility for ENGL 1A or ESL 26 and MATH 101.

Career Certificates (8-52 units)

Career certificates are awarded along the road to the full Certificate of Proficiency. For certificate request forms please check with the Travel Careers Department. A minimum grade of **C** is required in each course. There are no math or English proficiency requirements for any of the career certificates.

Travel Sales Reservationist Career Certificate: Basic (8 units)

TC 60 Travel Online (1 unit)

TC 62A Creating Travel Reservations: Basic (2 units)

TC 62B Creating Travel Reservations: Advanced (2 units)

TC 64 Air Ticketing: North America (3 units)

Business Travel Specialist Career Certificate: North America Focus (16 units)

TC 50 Introduction to Travel Careers (2 units)

TC 51 Tourism in North America (4 units)

TC 60 Travel Online (1 unit)

TC 62A Creating Travel Reservations: Basic (2 units)

TC 62B Creating Travel Reservations: Advanced (2 units)

TC 64 Air Ticketing: North America (3 units)

TC 67 Business Travel Reservations (2 units)

Business Travel Specialist Career Certificate International Focus (20 units)

TC 50 Introduction to Travel Careers (2 units)

TC 52 Tourist Centers of Europe (4 units)

TC 53 Global Tourism (4 units)

TC 60 Travel Online (1 unit)

TC 62A Creating Travel Reservations: Basic (2 units)

TC 62B Creating Travel Reservations: Advanced (2 units)

TC 65 Air Ticketing: International (3 units)

TC 67 Business Travel Reservations (2 units)

Wholesale Travel Specialist Career Certificate (35 units)

TC 50 Introduction to Travel Careers (2 units)

TC 51 Tourism in North America (4 units)

TC 52 Tourist Centers of Europe (4 units)

TC 53 Global Tourism (4 units)

TC 55 Selling Domestic Travel (4 units)

TC 56 Selling Foreign Independent Tours (4 units)

TC 58 Selling Group Travel (4 units)

TC 60 Travel Online (1 unit)

TC 62A Creating Travel Reservations: Basic (2 units)

TC 74 Tour Directing (3 units)

TC 75 Operating Wholesale Tours (3 units)

Leisure Travel Specialist Career Certificate (52 units)

TC 50 Introduction to Travel Careers (2 units)

TC 51 Tourism in North America (4 units)

TC 52 Tourist Centers of Europe (4 units)

TC 53 Global Tourism (4 units)

TC 54 Selling Cruises (4 units)

TC 55 Selling Domestic Travel (4 units)

TC 56 Selling Foreign Independent Tours (4 units)

TC 58 Selling Group Travel (4 units)

TC 59 Travel Sales Techniques (3 units)

TC 60 Travel Online (1 unit)

TC 62A Creating Travel Reservations: Basic (2 units)

TC 62B Creating Travel Reservations: Advanced (2 units)

TC 64 Air Ticketing: North America (3 units)

TC 65 Air Ticketing: International (3 units)

TC 68 Leisure Travel Reservations (2 units)

TC 70 Special Worldwide Destinations (4 units)

TC 78 Managing a Travel Business (2 units)

VETERINARY TECHNOLOGY

AS Degree

Units required for major: 97, for certificate: 16

Associate Degree Requirements*

A current Tetanus Vaccination is required. Background screening and drug testing may be required by clinical facilities and licensing boards. Positive results could impact a student's chances of attending clinics, completing the program requirements, or qualifying for a license to practice upon graduation. The cost of any required physical examinations, vaccinations, background screenings, and drug tests will be paid by the student. Students accepted into the program will be provided with specific details.

Prerequisites

Completion of VT 51 with a grade of **C** or better (must be completed prior to or be in progress at the time of application for admission to the program); high school graduation or a valid G.E.D., high school algebra or MATH 101 or score 25+ on elementary algebra assessment test; high school general biology or BIOL 10; high school general chemistry (recommended); eligibility for ESL 25 or ENGL 110.

First Year†

Fall Quarter (17.5 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 (16.5 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 (5 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 75C Animal Care Skills (1 unit)

VT 86 Laboratory Animal Methods (4 units)
 VT 89 Clinical Internship (3 units)
 BIOL 40C Anatomy & Physiology (5 units)

Second Year†

Fall Quarter (17.5 units)

VT 50 Seminar for Veterinary Technicians (.5 unit)
 VT 70 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 91 Clinical Internship (3 units)

Winter Quarter (14.5 units)

VT 50 Seminar for Veterinary Technicians (.5 unit)
 VT 61 Animal Diseases (5 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 72 Veterinary Dentistry for Technicians (2 units)
 VT 85 Emergency Animal Care (4 units)
 VT 87B Advanced Animal Care Skills (1 unit)
 VT 93 Clinical Internship (4 units)
 VT 95 Technician Proficiency (2 units)
 VT 95L Technician Proficiency Laboratory (1 unit)

†All courses must be taken in sequence

Certificate Information

Certificate of Completion (8 units)
 VT 52A Veterinary Assisting I (5 units)
 VT 52B Veterinary Assisting II (5 units)
 VT 88A-B Clinical Preceptorship I-II (3-3 units)

Questions regarding this program or help in schedule planning should be directed to the VT counselors, (650) 949-7423, or Dr. Karl Peter, program director, (650) 949-7203, or peterkm@foothill.edu; or Kathy DePaolo, RVT, (650) 949-7999, x4006, kadepaolo@sbcglobal.net.

VIDEO ARTS

AA Degree & Certificate

Units required for major: 49; for certificates: 12-49

Associate Degree Requirements*

Foundation Courses (33 units)

VART 1 Introduction to Film Studies (4 units)
 VART 15 Video & Streaming Media Techniques (4 units)
 PHOT 1 Beginning Photography (3 units)
 or PHOT 5 Introduction to Photographic Expression (3 units)
 VART 86 Introduction to Digital Sound, Video & Animation (4 units)
 VART 20-21 Digital Video Production I-II (4-4 units)
 VART 78 Portfolio Presentation (2 units)
 VART 84 Digital Video Editing I (4 units)
 VART 85 Digital Video Editing II (4 units)

Support Courses (16 units, any area)

Video Production
 VART 80 Special Projects in Video Arts (1-4 units)
 GID 71 Storyboarding (4 units)
 DRAM 62 Acting for Film & Video (4 units)
 DRAM 77 Principles of Lighting Design (4 units)

Film/Video History & Contemporary Issues
 VART 1 Introduction to Film Studies (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)

GID 1 History of Visual Communication (4 units)
 MUS 50B Entertainment Law & New Media (4 units)

Sound Arts & Electronic Music
 MUS 80 Recording Arts I (4 units)
 MUS 81A Recording Arts II (4 units)
 VART 81B Recording Arts II (4 units)

Broadcast Graphics
 GID 53 Creative Typography (4 units)
 GID 84 Motion Graphics (4 units)
 GID 56 Web Site Design (4 units)
 PHOT 65A Introduction to Digital Photography (3 units)
 VART 89 Introduction to the MAYA 3-D system (4 units)

Animation & Multimedia
 GID 71 Storyboarding (4 units)
 GID 72 Cartooning (4 units)
 GID 84 Motion Graphics (4 units)
 VART 89 Introduction to the MAYA 3-D System (4 units)

Certificate Information
 Skill Certificates: 12 units minimum

Digital Videography
 VART 20-21 Digital Video Production I-II (4-4 units)
 VART 1 Introduction to Film Studies (4 units)

Digital Video Editing
 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)

Sound Arts
 VART 80 Special Projects in Video Arts (1-4 units)
 MUS 81A Recording Arts II: Digital Audio (4 units)
 VART 81B Recording Arts II: Audio for Video (4 units)

Broadcast Graphics
 GID 53 Creative Typography (4 units)
 GID 84 Motion Graphics (4 units)
 VART 89 Introduction to the MAYA 3-D System (4 units)

Animation & Multimedia
 GID 71 Storyboarding (4 units)
 GID 84 Motion Graphics (4 units)
 GID 72 Cartooning or (4 units) or VART 89 Introduction to the MAYA 3-D System (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.

Certificate of Completion (12 units)

Film History and Contemporary Issues (any 3 courses from Film/Video history support course area)

Career Certificate in Video Arts (49 units)

Same as A.A. degree without general education requirements

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)

SPCH 10 Gender & Communication (4.5 units)

Support Courses (16 units minimum)

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 Multi-Cultural Society (4 units)

ENGL 21 Images of Women in Literature (4 units)

or ENGL 22 Women Writers

WMN 15A History of Women in Art (4 units)



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. Please 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.

Course Listings

Course Numbering System

California Articulation Number System (CAN)

Course Listings

Other Approved Courses

Course Listings

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.

CAN COURSE	FOOTHILL COURSE	CAN COURSE	FOOTHILL COURSE
ANTH 2	ANTH 1	BUS 8	BUSI 18
ANTH 4	ANTH 2A	BUS SEQ A	ACCT 1A+1B+1C
ANTH 6	ANTH 8	CHEM 1	CHEM 1A
ART 2	ART 2A+2B	CHEM 2	CHEM 1A+1B
ART 4	ART 2B+2C	CHEM 3	CHEM 1B
ART 6	ART 45A+45AX	CHEM 4	CHEM 1B+1C
ART 8	ART 4A+4B	CHEM 5	CHEM 1C
ART 10	ART 69	CHEM 6	CHEM 30A
ART 14	ART 5A	CHEM 8	CHEM 30B
ART 16	ART 5B	CHEM SEQ A	CHEM 1A+1B+1C
ART 18	PHOT 1	CHEM SEQ B	CHEM 30A & 30B
ART 20	ART 69	CHIN SEQ A	CHIN 1+2+3
ART SEQ A	ART 2A+2B+2C	CHIN SEQ B	CHIN 4+5+6
BIOL 2	BIOL 1A	CSCI 2	CIS 2
BIOL 14	BIOL 41	CSCI 6	CIS 12A
BIOL SEQ A	BIOL 1A+1B+1C	CSCI 16	CIS 25A
BIOL SEQ B	BIOL 40A+40B+40C	CSCI 22	CIS 15A OR 27A
BUS 2	ACTG 1A+1B	CSCI 26	CIS 18 OR MATH 22
BUS 4	ACTG 1C	DRAM 6	DRAM 46
BUS 6	CIS 60	DRAM 8	DRAM 20A+20B

For the most up-to-date information,
consult a counselor or access www.csus.edu.

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CAN COURSE	FOOTHILL COURSE	CAN COURSE	FOOTHILL COURSE
DRAM 10	DRAM 77	GEOG 4	GEOG 2
DRAM 14	DRAM 40A	GEOG 6	GEOG 1
DRAM 18	DRAM 1	GEOL 2	GEOL 10
DRAM 20	DRAM 58	GEOL 4	GEOL 11
ECON 2	ECON 1A	GERM 1	GERM 1
ECON 4	ECON 1B	GERM 3	GERM 2
ENGL 2	ENGL 1A	GERM 5	GERM 3
ENGL 4	ENGL 1B	GERM 7	GERM 4
ENGL 6	CRWR 6	GERM 11	GERM 6
ENGL 8	ENGL 46A+46B	GERM SEQ A	GERM 1+2+3
ENGL 10	ENGL 46B+46C	GERM SEQ B	GERM 4+5+6
ENGL 20	ENGL 11	GOVT 2	POLI 1
ENGL SEQ A	ENGL 1A+1B	HIST 2	HIST 4A+4B
ENGL SEQ B	ENGL 46A+46B+46C	HIST 8	HIST 17A
ENGR 4	ENGR 45	HIST 10	HIST 17B
ENGR 6	ENGR 37+37L	HIST SEQ A	HIST 4A+4B+4C
ENGR 8	ENGR 35	HIST SEQ B	HIST 17A+17B
ENGR 12	ENGR 37	JAPN 8	JAPN 4+5
FCS 2	BIOL 45	JAPN SEQ A	JAPN 1+2+3
FCS 14	CHLD 55	JAPN SEQ B	JAPN 4+5+6
FREN 2	FREN 1+2	JOUR 2	ENGL 4
FREN 3	FREN 2	MATH 2	MATH 44
FREN 5	FREN 3	MATH 8	MATH 51
FREN 7	FREN 4	MATH 10	MATH 49
FREN 9	FREN 5	MATH 12	MATH 11
FREN 11	FREN 6	MATH 17	MATH 1A
FREN SEQ A	FREN 1+2+3	MATH 18	MATH 1A+1B
FREN SEQ B	FREN 4+5+6	MATH 19	MATH 1B

For the most up-to-date information,
consult a counselor or access www.csus.edu.

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CAN COURSE	FOOTHILL COURSE
MATH 20	MATH 1B & 1C
MATH 21	MATH 1C
MATH 22	MATH 1C+1D
MATH 23	MATH 1D
MATH 24	MATH 2A
MATH 26	MATH 2B
MATH 34	MATH 12
MATH SEQ B	MATH 1A+1B+1C
MATH SEQ C	MATH 1A+1B+1C+1D
PHIL 2	PHIL 4
PHIL 4	PHIL 8
PHIL 6	PHIL 1
PHYS 2	PHYS 2A+2B
PHYS 4	PHYS 2B+2C
PHYS 8	PHYS 4A
PHYS 12	PHYS 4B
PHYS 14	PHYS 4C
PHYS 16	PHYS 4D
PHYS SEQ A	PHYS 2A+2B+2C

For the most up-to-date information,
consult a counselor or access www.csus.edu.

CAN COURSE	FOOTHILL COURSE
PHYS SEQ B	PHYS 4A+4B+4C
PHYS SEQ C	PHYS 4A+4B+4C+4D
PSY 2	PSYC 1
SOC 2	SOC 1
SOC 4	SOC 20
SPAN 1	SPAN 1
SPAN 2	SPAN 1+2
SPAN 3	SPAN 2
SPAN 4	SPAN 2+3
SPAN 5	SPAN 3
SPAN 7	SPAN 4
SPAN 9	SPAN 5
SPAN 11	SPAN 6
SPAN SEQ A	SPAN 1+2+3
SPAN SEQ B	SPAN 4+5+6
SPCH 4	SPCH 1A
SPCH 6	SPCH 1B
SPCH 10	SPCH 4
STAT 2	MATH 10

For the most up-to-date information,
consult a counselor or access www.csus.edu.



Course Listings

ACADEMIC SKILLS

Language Arts Division	(650) 949-7452 www.foothill.edu/la/		
ACAD 101 READING IMPROVEMENT/SPEED READING 1 Unit	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. Computerized or text-based instruction in improving reading comprehension skills and speed. Areas covered include basic comprehension, appropriate reading strategies, retaining information, inferring meaning, determining relative importance of ideas, identifying flaws in arguments, using reference sources, locating information in graphs, charts, and diagrams, and improving rate of perception.		1 Unit
ACAD 102 PUNCTUATION IMPROVEMENT 1 Unit	Advisory: Pass/No Pass. Two hours lecture-laboratory. May be taken three times for credit. 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.		1 Unit
ACAD 104 SPELLING IMPROVEMENT 1 Unit	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. 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.		1 Unit
ACAD 105 WRITING BETTER SENTENCES 1 Unit	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. 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.		1 Unit
ACAD 107 WRITING FOR PUBLIC SERVICE AGENCIES 1 Unit	Advisory: Pass/No Pass. Two hours lecture-laboratory. May be taken three times for credit. Individualized course designed to acquaint students with writing for public service agencies. Areas covered can include using interviewing and observation techniques within writing, using multiple sources within writing, using summarizing skills for a specific audience, and Web searching for organizational information. Individualized instruction, conferences, and ongoing assessment are the methods used.		1 Unit
ACAD 108 RESEARCH PAPER ASSISTANCE 1 Unit	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. An individualized course designed to teach basic techniques for the research paper. Skills worked on include selection of topic, collection of data, and requirements of form. One-on-one instruction, conferences, and ongoing assessment are the methods used. Materials are available at beginning, intermediate, and advanced levels.		1 Unit
ACAD 109 NOTETAKING SKILLS	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. Computerized or text-based instruction in the techniques of notetaking. Areas covered can include analysis and application of the forms of notetaking and their appropriateness to different communication contexts. Materials available at beginning, intermediate and advanced levels.	1 Unit	
ACAD 110 GRAMMAR IMPROVEMENT	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. 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.	1 Unit	
ACAD 111 SUMMARY WRITING	Advisory: Pass/No Pass. Two hours lecture-laboratory. May be taken three times for credit. Individualized course designed to teach summary writing. Skills worked on include critical reading, distinction between main ideas and details, and summary formats. Emphasis is on producing a clear, concise summary of single and multiple readings. Individualized instruction, conferences, and ongoing assessment are the methods used. Materials available at beginning and intermediate levels.	1 Unit	
ACAD 112 VOCABULARY IMPROVEMENT	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. 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.	1 Unit	
ACAD 114 WRITING SHORT ESSAYS	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. Computerized or text-based instruction in writing skills. Areas covered include prewriting, planning, developing a thesis, generating supporting information, developing a pattern of organization, organizing material into paragraphs, using a variety of sentence types, correcting basic errors in grammar and conventions.	1 Unit	
ACAD 122 LISTENING & PRONUNCIATION SKILLS FOR ESL	Advisory: Pass/No Pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. 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.	1 Unit	
ACAD 123 WORD PROCESSING & KEYBOARDING SKILLS	Advisory: Pass/No pass. Two hours lecture-laboratory for each unit of credit. May be taken three times for credit. Computerized course in basic to intermediate word processing skills and keyboarding. Focus on increasing speed and accuracy using touch typing, entering and editing text, saving files, blocking and manipulating text, using spell check, and inserting graphics.	1 Unit	

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

Foothill College 2005-2006

ACAD 150 VOCABULARY DEVELOPMENT	1 Unit	ACTG 64A COMPUTERIZED ACCOUNTING PRACTICE	2 Units
Corequisite: Enrollment in ENGL 100 required.		Prerequisites: ACTG 1A or equivalent experience. Not open to students with credit in CIS 64A.	
Three hours laboratory.		Four hours lecture-laboratory.	
May be taken three times for credit.		Focus on using QuickBooks to record financial data. Reviewing the accounting cycle, processing business transactions and preparing financial statements.	
ACAD 151 SENTENCE & PUNCTUATION SKILLS	1 Unit	ACTG 64B COMPUTERIZED ACCOUNTING PROGRAMS	2 Units
Corequisite: Enrollment in ENGL 100.		Prerequisite: ACTG 1B or equivalent experience.	
Three hours laboratory.		Four hours lecture-laboratory.	
May be taken three times for credit.		Practice in using an electronic spreadsheet program to organize and process financial and managerial accounting data. Includes research on the Internet.	
Individualized audio-tutorial/workbook/software instruction in vocabulary skills. Emphasis on words in context. Placement based on assessment information.			
ACAD 167 STANDARDIZED TEST PREPARATION FOR YOUTH-ENGLISH	1 Unit	ACTG 65 PAYROLL & BUSINESS TAX ACCOUNTING	4 Units
ACAD 167X	1.5 Units	Prerequisite: ACTG 1B.	
ACAD 167Y	2 Units	Four hours lecture.	
ACAD 167Z	2.5 Units	Presentation of basic payroll procedures used in business today. Provides practice in recording procedures and preparation of tax returns.	
One hour lecture for each unit of credit.			
May be taken two times for credit.			
Test-taking strategies specific for college entrance English language tests. Analysis of test structure and content. Identification of areas of student weaknesses, and instruction in those areas. Practice on standardized college entrance English language tests.			

ACCOUNTING

Business & Social Sciences Division	(650) 949-7322		
	foothill.fhda.edu/bss/		
ACTG 1A FINANCIAL ACCOUNTING I	5 Units	ACTG 66 COST ACCOUNTING	4 Units
Five hours lecture, one hour laboratory.		Prerequisite: ACTG 1C or equivalent experience.	
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. [ACTG 1A & 1B=CAN BUS 2; ACTG 1A & 1B & 1C=CAN BUS SEQ A]		Four hours lecture.	
		Fundamentals of activity-based costing, job-order, process cost, and standard cost accounting systems.	
ACTG 1B FINANCIAL ACCOUNTING II	5 Units	ACTG 67 TAX ACCOUNTING	3 Units
Five hours lecture, one hour laboratory.		Three hours lecture.	
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. [ACTG 1A & 1B - CAN BUS 2; ACTG 1A & 1B & 1C - CAN BUS SEQ A]		Current federal and California income tax law and the procedures for preparing an individual's tax return.	
ACTG 1C MANAGERIAL ACCOUNTING	5 Units	ACTG 68A ADVANCED TAX ACCOUNTING I	4 Units
Prerequisite: ACTG 1B.		Prerequisites: ACTG 67 or equivalent experience.	
Advisory: MATH 10 or high school algebra recommended.		Four hours lecture.	
Five hours lecture, one hour laboratory.		Current federal income tax law as it relates to sole proprietorships and partnerships.	
Study of accounting information system for internal uses. Process costing, job-order costing, activity-based costing, cost behavior and cost-volume profit analysis, budgeting, performance evaluation, and capital investment analysis. [CAN BUS 4; ACTG 1A & 1B & 1C - CAN BUS SEQ A]			
ACTG 51A INTERMEDIATE ACCOUNTING	4 Units	ACTG 68B ADVANCED TAX ACCOUNTING II	4 Units
Prerequisite: ACTG 1B		Prerequisites: ACTG 68A	
Four hours lecture		Four hours lecture.	
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.		Current federal income tax law as it relates to corporations, estate, trust, and gift taxes.	
ACTG 60 ACCOUNTING FOR SMALL BUSINESS	5 Units	ACTG 68C ADVANCED TAX ACCOUNTING III	3 Units
Five hours lecture.		Prerequisite: ACTG 68B	
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.		Three hours lecture.	
		Current federal income tax administration and procedures and review of Enrolled Agent Exam.	

ADAPTIVE LEARNING: ADAPTIVE PHYSICAL EDUCATION

Adaptive Learning Division	(650) 949-7321
	www.foothill.edu/al/
ALAP 52 INTRODUCTION TO CONCEPTS OF PHYSICAL FITNESS FOR THE DISABLED STUDENT	.5 Unit
ALAP 52X	1 Unit
ALAP 52Y	1.5 Units
Formerly SPAP 52, X,Y.	
Prerequisite: Medically verified disability	
Two hours lecture-laboratory for each unit of credit.	
May be taken six times for 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 THE PHYSICALLY LIMITED	.5 Unit	
ALAP 60X		1 Unit	
<i>Formerly SPAP 60, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 60: Two hours laboratory and one and one half hours individualized activity. ALAP 60X: Three hours laboratory and one hour individualized activity.. May be taken six times for credit.			
Personal instruction in exercise programs to develop a comprehensive exercise program based on physical abilities and individual goals. Cardiovascular endurance, flexibility, muscular strength and endurance, balance and/or motor skills, as appropriate.			
ALAP 61	RESISTIVE EXERCISE FOR THE PHYSICALLY LIMITED	.5 Unit	
ALAP 61X		1 Unit	
<i>Formerly SPAP 61, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 61: Two hours laboratory, one and one-half hours individualized activity. ALAP 61X: Three hours laboratory one hour individualized activity. May be taken six times for credit.			
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 THE PHYSICALLY LIMITED	.5 Unit	
ALAP 62X		1 Unit	
<i>Formerly SPAP 62, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 62: Two hours laboratory, one and one-half activity time. ALAP 62X: Three hours laboratory, one hour activity time. May be taken six times for credit.			
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 PHYSICALLY LIMITED	.5 Unit	
ALAP 63X		1 Unit	
<i>Formerly SPAP 63, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 63: Two hours laboratory. ALAP 63X: Three hours laboratory. May be taken six times for credit.			
Exercises for improving body mechanics for those with musculo-skeletal impairments. Body mechanics and lumbar spine stabilization.			
ALAP 64	AEROBIC DANCE FOR THE PHYSICALLY LIMITED	.5 Unit	
ALAP 64X		1 Unit	
<i>Formerly SPAP 64, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 64: Two hours laboratory. ALAP 64X: Three hours laboratory. May be taken six times for credit.			
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 THE PHYSICALLY LIMITED	.5 Unit	
ALAP 65X		1 Unit	
<i>Formerly SPAP 65, X,Y.</i>			
Prerequisite: Medically verified disability.			
Advisory: Pass/No Pass.			
Three hours laboratory for each unit of credit. May be taken six times for credit.			
Individualized stretching and flexibility for the physically limited student. Emphasis on increased range of motion and flexibility.			
ALAP 66	FUNCTIONAL FITNESS FOR THE PHYSICALLY LIMITED	.5 Unit	
ALAP 66X		1 Unit	
<i>Formerly SPAP 66, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 66: Two hours laboratory. ALAP 66X: Three hours laboratory. May be taken six times for credit.			
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 70	ADAPTIVE AQUATICS FOR THE PHYSICALLY LIMITED	.5 Unit	
ALAP 70X		1 Unit	
<i>Formerly SPAP 70, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 70: Two hours laboratory. ALAP 70X: Three hours laboratory. May be taken six times for credit.			
Individualized swimming instruction to improve cardiovascular endurance.			
ALAP 71	AQUACIZE FOR THE PHYSICALLY LIMITED	.5 Unit	
ALAP 71X		1 Unit	
<i>Formerly SPAP 71, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 71: Two hours laboratory. ALAP 71X: Three hours laboratory. May be taken six times for credit.			
Individually prescribed aquatic exercises to increase muscular strength and endurance, flexibility, cardiovascular endurance, gross motor coordination, relaxation, as appropriate.			
ALAP 80	TEAM SPORTS FOR THE PHYSICALLY LIMITED	.5 Unit	
ALAP 80X		1 Unit	
<i>Formerly SPAP 80, X,Y.</i>			
Prerequisite: Medically verified disability.			
ALAP 80: Two hours laboratory. ALAP 80X: Three hours laboratory. May be taken six times for credit.			
A variety of team sports, adapted for the physically limited adult. Team activity and rules of play for team sports, including, but not limited to, soccer, basketball, track and field, softball.			
ALAP 104	ADAPTIVE FITNESS INTERNSHIP	1 Unit	
<i>Formerly SPAP 104.</i>			
Corequisite: Concurrent enrollment in ALAP 101, 102, or 103. Three hours laboratory. May be taken six times for credit.			
Designed to provide the home health professional and fitness instructor with a practical laboratory experience within an adaptive fitness setting. The student will have the opportunity to work with a variety of chronic conditions with minimal supervision.			
ALAP 105	ADAPTIVE FITNESS DIRECTED STUDY	.5 Unit	
ALAP 105X		1 Unit	
<i>Formerly SPAP 105, X.</i>			
ALAP 105: Two hours laboratory. ALAP 105X: Three hours laboratory. May be taken three times for credit.			
Designed to provide the adaptive fitness professional with an opportunity to augment his/her skills and knowledge in the profession through directed readings or by viewing instructional videos.			
ADAPTIVE LEARNING: COMMUNITY BASED			
Adaptive Learning Division		(650) 949-7321	
		www.foothill.edu/al/	
ALCB 201	BEGINNING LIP READING	.5 Unit	
ALCB 201X		1 Unit	
Prerequisite: Medically verified disability.			
One and one-half, two hours lecture-laboratory. May be taken six times for credit.			
Designed for adults with acquired, congenital or progressive hearing impairment. Includes basic sounds of the English language and how 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.			

ALCB 202	INTERMEDIATE LIP READING & MANAGING YOUR HEARING LOSS	.5 Unit 1 Unit	ALCB 229	WORK ADJUSTMENT FOR THE DISABLED	.5 Unit 1 Unit
ALCB 202X			ALCB 229X		2 Units
Prerequisite: Medically verified disability.			ALCB 229Y		3 Units
One and one-half, two hours lecture-laboratory.			ALCB 229Z		
May be taken six times for credit.			Formerly SPET 229, X,Y,Z.		
Designed to meet the needs of the hearing impaired adult with acquired hearing impairment.			Prerequisite: Verified disability.		
ALCB 203	ADVANCED LIP READING	.5 Unit	Three hours laboratory for each unit of credit.		
ALCB 203X		1 Unit	May be taken six times for credit.		
Prerequisite: Medically verified disability. ALCB 201, 202 or equivalent skills.			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.		
One and one-half, two hours lecture-laboratory.					
May be taken six times for credit.					
Designed to meet the needs of the hearing impaired adult with acquired hearing impairment.					
ALCB 204	POST-ADVANCED LIP READING	.5 Unit	ALCB 230	INTRODUCTION TO THE COMPUTER FOR THE DISABLED	2 Units
ALCB 204X		1 Unit			
Prerequisite: Medically verified disability. Successful completion of beginning, intermediate and advanced lip-reading or their equivalent or instructor's permission.			Four hours lecture-laboratory, two hours terminal time.		
One and one-half, two hours lecture/laboratory.			May be taken six times for credit.		
Designed for hard of hearing adults who exhibit substantial lip-reading skills and wish to upgrade and maintain their abilities.			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.		
ALCB 207	MOBILITY SKILLS FOR THE VISUALLY IMPAIRED	.5 Unit	ALCB 231	CAREER PLANNING & ASSESSMENT	.5 Unit
ALCB 207X		1 Unit	ALCB 231X		1 Unit
ALCB 207Y		2 Units	ALCB 231Y		2 Units
Formerly: ALCB 135			ALCB 231Z		3 Units
Prerequisite: Medically verified disability.			Prerequisite: Medically verified disability.		
One and one-half hours laboratory for one-half unit of credit.			One and one-half hours laboratory for every half unit of credit.		
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.			May be repeated for a total of nine units for credit.		
ALCB 222	JOB SEARCH SKILLS	1 Unit	Designed to help students develop a personal profile that identifies sociological, psychological and physiological perspectives for success in work, education and personal life.		
ALCB 222X		2 Units			
ALCB 222Y		2.5 Units	ALCB 401,X,Y LIFE DEVELOPMENT: GOAL SETTING		0 Units
ALCB 222Z		3 Units	Formerly SPET 401, X,Y.		
Formerly SPET 222, X,Y,Z.			Prerequisite: Medically verified disability.		
Two hours lecture-laboratory, one-half hour laboratory for each unit of credit.			ALCB 401: One hour laboratory. ALCB 401X: One and one-half hours laboratory. ALCB 401Y: Two hours laboratory.		
May be taken six times for credit.			May be repeated.		
Preparation and skills necessary for re-entry into job market. Emphasis on technological changes impacting the job search. Includes use of Internet for job search.			Designed for the disabled student to improve knowledge of basic goal-setting skills and ability to apply goals to daily life.		
ALCB 223	CAREER RESOURCES	.5 Unit	ALCB 402,X,Y LEISURE MANAGEMENT		0 Units
ALCB 223X		1 Unit	Formerly SPET 402, X,Y.		
ALCB 223Y		2 Units	Prerequisite: Medically verified disability.		
ALCB 223Z		3 Units	ALCB 402: One hour laboratory. ALCB 402X: One and one-half hours laboratory. ALCB 402Y: Two hours laboratory.		
Formerly SPET 223, X,Y,Z.			May be repeated.		
Prerequisite: Medically verified disability.			Designed for the disabled student to acquire information about and develop strategies for managing accessible, affordable and pleasing leisure time.		
Three hours laboratory for each unit of credit.					
May be taken six times for credit.			ALCB 403,X,Y CHANGING GENERATIONS		0 Units
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.			Formerly SPET 403, X,Y.		
ALCB 224	EMPLOYMENT ISSUES	.5 Unit	Prerequisite: Medically verified disability.		
ALCB 224X		1 Unit	ALCB 403: One hour laboratory. ALCB 403X: One and one-half hours laboratory. ALCB 403Y: Two hours laboratory.		
ALCB 224Y		2 Units	May be repeated.		
ALCB 224Z		3 Units	Designed to offer an opportunity for young and old to share a relationship.		
Formerly SPET 224, X,Y,Z.					
Prerequisite: Medically verified disability.			ALCB 404,X,Y CONSUMER TOPICS		0 Units
Two hours lecture-laboratory for each unit of credit.			Formerly SPET 404, X,Y.		
May be taken six times for credit.			Prerequisite: Medically verified disability.		
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.			ALCB 404: One hour laboratory. ALCB 404X: One and one-half hours laboratory. ALCB 404Y: Two hours laboratory.		
			May be repeated.		
			Designed for the disabled to improve consumer decision-making by understanding personal values, formulating strategies, identifying consumer assistance sources, identifying the rights and responsibilities of parties involved in a transaction, creating a budget, and understanding credit.		

ALCB 405,X,Y INDEPENDENT LIVING SKILLS <i>Formerly SPET 405, X,Y.</i> Prerequisite: Medically verified disability. ALCB 405: One hour laboratory. ALCB 405X: One and one-half hours laboratory. ALCB 405Y: Two hours laboratory. May be repeated. Enhancement of self-esteem, communication, assertive skills, socialization, relaxation techniques and fundamental living skills to foster independence and self-reliance. Emphasis is on communication and social skills, leisure and relaxation techniques to manage daily living.	0 Units	ALCB 414,X,Y STRESS MANAGEMENT <i>Formerly SPET 414, X,Y.</i> Prerequisite: Medically verified disability. ALCB 414: One hour laboratory. ALCB 414X: One and one-half hours laboratory. ALCB 414Y: Two hours laboratory. Unlimited repeatability. 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.	0 Units
ALCB 406,X,Y WORLD NEWS DISCUSSION <i>Formerly 406, X,Y.</i> Prerequisite: Medically verified disability. ALCB 406: One hour laboratory. ALCB 406X: One and one-half hours laboratory. ALCB 406Y: Two hours laboratory. May be repeated. 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.	0 Units	ALCB 415 HEALTHY AGING Prerequisite: Medically verified disability. One hour laboratory. Unlimited repeatability. 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.	0 Units
ALCB 407 SOCIAL CHANGE ALCB 407X ALCB 407Y <i>Formerly SPET 407, X,Y.</i> Prerequisite: Medically verified disability. ALCB: 407: One hour laboratory. ALCB: 407X: One and one-half hours laboratory. ALCB 407Y: Two hours laboratory. May be repeated. 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.	0 Units	ALCB 421, X,Y AROUND THE WORLD IN TRAVEL STUDY <i>Formerly SPET 421, X,Y.</i> Prerequisite: Medically verified disability. ALCB 421: One hour laboratory. ALCB 421X: One and one-half hours laboratory. ALCB 421Y: Two hours laboratory. May be repeated. 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.	0 Units
ALCB 408,X,Y ART APPRECIATION <i>Formerly SPET 408, X,Y.</i> Prerequisite: Medically verified disability. ALCB 408: One hour laboratory. ALCB 408X: One and one-half hours laboratory. ALCB 408Y: Two hours laboratory. May be repeated. 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.	0 Units	ALCB 431,X-Z ANALYSIS OF CURRENT EVENTS <i>Formerly SPET 431, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 431: One hour laboratory. ALCB 431X: One and one-half hours laboratory. ALCB 431Y: Two hours laboratory. ALCB 431Z: Three hours laboratory. May be repeated. 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.	0 Units
ALCB 409,X,Y MUSIC APPRECIATION <i>Formerly SPET 409, X,Y.</i> Prerequisite: Medically verified disability. ALCB 409: One hour laboratory. ALCB 409X: One and one-half hours laboratory. ALCB 409Y: Two hours laboratory. May be repeated. Designed for the disabled student to acquire appreciation of composers and their work. Emphasis on identification and recall of auditory input.	0 Units	ALCB 432,X,Y USE OF COMMUNITY RESOURCES <i>Formerly SPET 432, X,Y.</i> Prerequisite: Medically verified disability. ALCB 432: One hour laboratory. ALCB 432X: One and one-half hours laboratory. ALCB 432Y: Two hours laboratory. May be repeated. Overview of community resources with emphasis on skills for living independently.	0 Units
ALCB 411,X,Y HEALTH ISSUES <i>Formerly SPET 411, X,Y.</i> Prerequisite: Medically verified disability. ALCB 411: One hour laboratory. ALCB 411X: One and one-half hours laboratory. ALCB 411Y: Two hours laboratory. May be repeated. Designed for the disabled to acquire information and develop strategies for managing the physical, social and psychological effects of illness.	0 Units	ALCB 433,X-Z SOCIAL COMMUNICATION <i>Formerly SPET 433, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 433: One hour laboratory. ALCB 433X: One and one-half hours laboratory. ALCB 433Y: Two hours laboratory. ALCB 433Z: Three hours laboratory. May be repeated. Designed for the disabled student to enhance self-esteem, communication and socialization skills in order to increase confidence in personal and social interactions.	0 Units
ALCB 413,X,Y RELAXATION TECHNIQUES <i>Formerly SPET 413, X,Y.</i> Prerequisite: Medically verified disability. ALCB 413: One hour laboratory. ALCB 413X: One and one-half hours laboratory. ALCB 413Y: Two hours laboratory. Unlimited repeatability. Designed for the disabled student to acquire information about and develop techniques for achieving relaxation by releasing mental and physical tension.	0 Units	ALCB 451,X-Z DRAWING & PAINTING <i>Formerly SPET 451, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 451: One hour laboratory. ALCB 451X: One and one-half hours laboratory. ALCB 451Y: Two hours laboratory. ALCB 451Z: Three hours laboratory. May be repeated. 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 painting, drawing and sketching materials, tools, and techniques to create two-dimensional art in a group setting.	0 Units

ALCB 453,X-Z CLAY ART <i>Formerly SPET 453, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 453: One hour laboratory. ALCB 453X: One and one-half hours laboratory. ALCB 453Y: Two hours laboratory. ALCB 453Z: Three hours 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 ceramic materials, tools and techniques to create clay projects in a group setting.	0 Units	ALCB 465,X-Z CREATIVE SELF-EXPRESSION <i>Formerly SPET 465, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 465: One hour laboratory. ALCB 465X: One and one-half hours laboratory. ALCB 465Y: Two hours laboratory. ALCB 465Z: Three hours laboratory. May be repeated. 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.	0 Units
ALCB 454,X,Y MUSIC & SONG <i>Formerly SPET 454, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 454: One hour laboratory. ALCB 454X: One and one-half hours laboratory. ALCB 454Y: Two hours laboratory. ALCB 454Z: Three hours laboratory. May be repeated. Designed for the disabled student to increase self-expression and social interaction, and improve self-esteem through singing and the discussion of songs.	0 Units	ALCB 481,X,Y EXERCISE FOR THE OLDER DISABLED ADULT <i>Formerly SPET 481, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 481: One hour laboratory. ALCB 481X: One and one-half hours laboratory. ALCB 481Y: Two hours laboratory. ALCB 481Z: Three hours laboratory. May be repeated. Designed for the disabled student to improve flexibility, range of movement, muscular strength and endurance.	0 Units
ALCB 455,X-Z MUSIC & MOVEMENT <i>Formerly SPET 455, X.</i> Prerequisite: Medically verified disability. ALCB 455: One hour laboratory. ALCB 455X: One and one-half hours laboratory. ALCB 455Y: Two hours laboratory. ALCB 455Z: Three hours laboratory. May be repeated. Designed for the disabled student to improve flexibility and mobility through exercise performed to music.	0 Units		
ALCB 456,X-Z CRAFTS <i>Formerly SPET 456, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 456: One hour laboratory. ALCB 456X: One and one-half hours laboratory. ALCB 456Y: Two hours laboratory. ALCB 456Z: Three hours laboratory. May be repeated. 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.	0 Units	ALCA 50A INTRODUCTION TO THE COMPUTER Prerequisite: Medically verified disability or access limitation or permission of instructor. Advisory: ALCA 102 or demonstrated knowledge of ability to use computer keyboard recommended. Not open to students with credit in CIS 50A. Two hours lecture-laboratory. Introduction to the computer and its uses for the student with little or no computer experience. Use of the IBM PC (Windows) or Macintosh for hands-on experience with a word processor, file management techniques, simple software configuration, and accessibility requirements for persons with disabilities. Presentation and discussion of other software applications as well as the role of computers and information systems in our society. Intended for the student who needs a slower or self-paced introduction to computers that does not include hands-on programming. Individualized small group instruction, lab time and self-paced terminal time.	1 Unit
ALCB 462,X-Z VERBAL EXPRESSION <i>Formerly SPET 462, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 462: One hour laboratory. ALCB 462X: One and one-half hours laboratory. ALCB 462Y: Two hours laboratory. ALCB 462Z: Three hours laboratory. May be repeated. Designed for the disabled student to teach techniques in verbal communication specifically to improve family, social and work-related situations.	0 Units	ALCA 50B INTRODUCTION TO THE COMPUTER Prerequisite: Medically verified disability or access limitation or permission of instructor. ALCA 102 or demonstrated knowledge of ability to use computer keyboard. Not open to students with credit in CIS 50A. Two hours lecture-laboratory. Introduction to the computer and its uses for the student with little or no computer experience. Use of the IBM PC (Windows) or Macintosh for hands-on experience with a spreadsheet, graphics, file management techniques, simple software configuration, and accessibility requirements for persons with disabilities. Presentation and discussion of other software applications as well as the role of computers in our society. Intended for the student who needs a slower or self-paced introduction to computers that does not include hands-on programming. Individualized small group instruction, lab time and self-paced terminal time.	1 Unit
ALCB 463,X,Y CREATIVE WRITING <i>Formerly SPET 463, X,Y,Z.</i> Prerequisite: Medically verified disability. ALCB 463: One hour laboratory. ALCB 463X: One and one-half hours laboratory. ALCB 463Y: Two hours laboratory. May be repeated. 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.	0 Units		
ALCB 464,X,Y POETRY & LITERATURE <i>Formerly SPET 464, X,Y.</i> Prerequisite: Medically verified disability. ALCB 464: One hour laboratory. ALCB 464X: One and one-half hours laboratory. ALCB 464Y: Two hours laboratory. May be repeated. 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.	0 Units		

ALCA 50C INTRODUCTION TO THE COMPUTER 1 Unit
Prerequisite: Medically verified disability or access limitation or permission of instructor. ALCA 102 or demonstrated knowledge of ability to use computer keyboard. Not open to students with credit in CIS 50A.
Two hours lecture-laboratory.

Introduction to the computer and its uses for the student with little or no computer experience. Use of the IBM PC (Windows) or Macintosh for hands-on experience with a word processor, spreadsheet, database manager, graphics, file management techniques, an Internet browser, and accessibility requirements for persons with disabilities. Presentation and discussion of other software applications as well as the role of computers and the information superhighway in our society. Intended for the student who needs a slower or self-paced introduction to computers that does not include hands-on programming. Individualized small group instruction, lab time and self-paced terminal time.

ALCA 101 COMPUTER ACCESS EVALUATION 1 Unit
Prerequisite: Medically verified disability or access limitation.
Advisory: Pass/No Pass.

Two hours lecture-laboratory.

May be taken six times for credit.

Evaluation with emphasis on determining the efficacy and appropriateness of accommodations required for parity with peers in regular college curricula.

ALCA 102 COMPUTER KEYBOARDING SKILLS .5 Unit FOR THE DISABLED

Prerequisite: Medically verified disability or access limitation or permission of instructor. Not open to students with credit in CIS 102 or CAST 102.

Advisory: Pass/No Pass.

One hour lecture-laboratory.

May be taken three times for credit.

Introduction to the keyboard covering the operation of the keyboard using the touch system and the development of correct techniques to interact more efficiently with desktop computers or electronic communication systems. Designed for independent skill learning. Use of the IBM PC (Windows) or Macintosh.

ALCA 201 COMPUTER ACCESS EVALUATION 1 Unit
Formerly: ALCA 101

Prerequisite: Medically verified disability or access limitation.

Advisory: Pass/No Pass.

Three hours laboratory.

May be taken six times for credit.

Evaluation with emphasis on determining the efficacy and appropriateness of accommodations required for parity with peers in regular college curricula.

ALCA 202 COMPUTER KEYBOARDING SKILLS .5 Unit FOR THE DISABLED

Formerly: ALCA 102

Prerequisite: Medically verified disability or access limitation or permission of instructor. Not open to students with credit in CIS 102 OR CAST 102.

Advisory: Pass/No Pass.

Two hours laboratory.

May be taken three times for credit.

Introduction to the keyboard covering the operation of the keyboard using the touch system and the development of correct techniques to interact more efficiently with desktop computers, or electronic communication systems. Designed for independent skill learning. Use of the IBM PC (Windows) or Macintosh .

ALCA 203 COMPUTER ACCESS PROJECTS 2 Units
ALCA 203X FOR THE DISABLED 3 Units

ALCA 203Y 4 Units
Formerly: ALCA 112

Prerequisite: Medically verified disability or access limitation.

Advisory: Pass/No Pass

Six, nine, twelve hours laboratory.

Projects designed for the student who has completed the Computer Access Evaluation with emphasis on accommodations required for parity with peers in regular college curricula.

ADAPTIVE LEARNING: LEARNING DISABILITY

Adaptive Learning Division

(650) 949-7017
www.foothill.edu/al/

ALLD 201 DIAGNOSING LEARNING DISABILITIES 2 Units
ALLD 201X 3 Units

Advisory: Pass/No Pass.

Three hours laboratory per unit of credit.

May be taken three times for 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 1 Unit
ALLD 202X LEARNING DISABLED 2 Units

Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.

Advisory: Pass/No Pass.

Three hours laboratory per unit of credit.

May be taken six times for 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

Advisory: Designed for students with learning differences. Pass/No Pass.

Three hours laboratory.

May be taken three times for credit.

Fundamentals of learning differences with emphasis on skills development in compensatory techniques.

ALLD 204 TECHNOLOGY-BASED WRITING FOR 1 Unit
ALLD 204X STUDENTS WITH LEARNING DIFFERENCES 2 Units

Advisory: Computer skills including basic keyboarding or consent of instructor. Pass/No Pass.

Two, four hours lecture/laboratory, one, two hours terminal time.

May be taken two times for credit.

Using technology and structured writing software to plan, organize, create and edit writing projects.

ALLD 205 READING REMEDIATION 1 Unit
ALLD 205X 2 Units

Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.

Advisory: Pass/No Pass.

Three hours laboratory per unit of credit.

May be taken six times for credit.

A systematic and progressive remedial reading class with an emphasis on reading comprehension. Designed for ALLD students.

ALLD 206 PARAGRAPH REMEDIATION 1 Unit
ALLD 206X 2 Units

Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.

Advisory: Pass/No Pass.

Three hours laboratory per unit of credit.

May be taken six times for 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
ALLD 207X		2 Units

Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.

Advisory: Pass/No Pass.

Three hours laboratory for one unit of credit.

May be taken six times for 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
ALLD 208X		2 Units

Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.

Advisory: Pass/No Pass.

Three hours laboratory per unit of credit.

May be taken six times for 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
ALLD 209X		2 Units

Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.

Advisory: Pass/No Pass

Three hours laboratory per unit of credit.

May be taken six times for 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
Two hours lecture, two hours of individualized assigned activities.		

This course maybe repeat two times for credit.

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, counselors or faculty is accepted. Prior Learning Disabilities testing is not required.

ALLD 212	STRATEGIC LEARNING FOR COLLEGE SUCCESS	2 Units
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Two hours lecture, two hours of weekly 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, counselors or faculty is accepted. Prior Learning Disabilities testing is not required.

ALLD 401,X-Z	STUDENT SUCCESS STRATEGIES FOR THE DISABLED STUDENT	0 Units
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Prerequisite: Verified disability.

ALLD 401: One hour laboratory. ALLD 401X: One and one-half hours laboratory. ALLD 401Y: Two hours laboratory. ALLD 401Z: Three hours laboratory.

May be repeated.

Provides information and assistance to accommodate students' needs and to increase student retention and success. Workshops and related follow-up activities designed to facilitate student success are provided.

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.

One hour lecture/laboratory per half unit of credit.

May be taken two times for 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 BRAIN INJURED STUDENT	.5 Unit
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Prerequisite: Medically verified disability.

Corequisite: Completion or concurrent enrollment in ALPS 200.

Advisory: Pass/No Pass.

One and one-half hours laboratory per unit of credit.

May be taken six times for 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
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Prerequisite: Medically verified disability.

Advisory: Pass/No Pass.

One half hour lecture.

May be taken six times for credit.

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
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Prerequisite: Medically verified disability.

Advisory: Pass/No Pass.

One and one-half hour laboratory.

May be taken six times for credit.

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
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Prerequisite: Medically verified disability.

Advisory: Pass/No Pass.

One and one-half hours laboratory.

May be taken six times for credit.

In depth assessment for psychomotor function.

ALPS 205	COMMUNICATION SKILLS FOR THE DISABLED	.5 Unit
ALPS 205X		1 Unit
ALPS 205Y		1 Unit

Prerequisite: Medically verified disability. Completion or concurrent enrollment in ALPS 200.

Advisory: Pass/No Pass.

One and one-half hours laboratory per half unit of credit.

May be taken six times for 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	ADAPTION SKILLS FOR THE DISABLED	.5 Unit	ALPS 212	EMERGENCY HOUSEHOLD PROCEDURES FOR THE DISABLED	.5 Unit
ALPS 206X		1 Unit	ALPS 212X		1 Unit
ALPS 206Y		3 Units	ALPS 212Y		1.5 Units
Prerequisite: Medically verified disability. Completion or concurrent enrollment in ALPS 200.			Prerequisite: Medically verified disability.		
Advisory: Pass/No Pass.			Advisory: . Pass/No Pass		
One and one-half hours laboratory per half unit of credit.			One hour lecture-laboratory per half unit of credit.		
May be taken six times for credit.			May be taken six times for credit.		
Designed to enhance adaptation skills for daily living particularly when dependence is a factor. Emphasis on post-stroke and acquired brain injury.			Designed to promote confidence and personal safety in dealing with emergency situations.		
ALPS 207	MOBILITY & FITNESS SKILLS FOR THE DISABLED	.5 Unit	ALPS 213	COGNITIVE RETRAINING FOR THE DISABLED	.5 Unit
ALPS 207X		1 Unit	ALPS 213X		1 Unit
ALPS 207Y		3 Units	ALPS 213Y		3 Units
Prerequisite: Medically verified disability. Completion or concurrent enrollment in ALPS 200.			Prerequisite: Medically verified disability.		
Advisory: Pass/No Pass			One and one-half hours laboratory per half unit of credit.		
One and one half hours laboratory per half unit of credit.			May be taken six times for credit.		
May be taken six times for credit.			Specialized computer-assisted instruction. Emphasis on processing skills, memory training and problem solving skills.		
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 214	MANAGEMENT OF PHYSICAL ASPECTS OF DISABILITIES	.5 Unit
ALPS 208X		1 Unit	ALPS 214X		1 Unit
ALPS 208Y		3 Units	ALPS 214Y		3 Units
Prerequisite: Medically verified disability.			Prerequisite: Medically verified disability.		
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
One and half hours laboratory per half unit of credit.			One and one-half hours laboratory per half unit of credit.		
May be taken six times for credit.			May be taken six times for credit.		
Designed to assist students to understand and deal with disabilities.			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 209	FUNCTIONAL COMMUNICATION	.5 Unit	ALPS 215	MOBILITY IN SITTING & STANDING FOR THE DISABLED	.5 Unit
Prerequisite: Medically verified disability. Completion of ALPS 205.			ALPS 215X		1 Unit
Advisory: Pass/No Pass.			ALPS 215Y		3 Units
One and one-half hours laboratory per half unit of credit.			Prerequisite: Medically verified disability.		
May be taken six times for credit.			Advisory: Pass/No Pass		
Rules of language and their application in a social context. For individuals with acquired brain injury (ABI).			One and one-half hours laboratory per half unit of credit.		
May be taken six times for credit.			May be taken six times for credit.		
Rules of language and their application in a social context. For individuals with acquired brain injury (ABI).			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 209X	SKILLS FOR THE DISABLED	1 Unit	ALPS 216	INDEPENDENT ACCESS SKILLS FOR POST-STROKE	.5 Unit
ALPS 209Y		3 Units	ALPS 216X		1 Unit
Prerequisite: Medically verified disability. Completion of ALPS 205.			ALPS 216Y		3 Units
Advisory: Pass/No Pass.			Prerequisite: Medically verified disability.		
One and one-half hours laboratory per half unit of credit.			Advisory: Pass/No Pass.		
May be taken six times for credit.			One and one-half hours laboratory per half unit of credit.		
Rules of language and their application in a social context. For individuals with acquired brain injury (ABI).			May be taken six times for credit.		
May be taken six times for 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 210	FUNCTIONAL SKILLS OF DAILY LIVING FOR THE DISABLED	.5 Unit	ALPS 217	SPECIAL PROJECTS IN THE POST-STROKE PROGRAM	.5 Unit
ALPS 210X		1 Unit	ALPS 217X		1 Unit
ALPS 210Y		3 Units	ALPS 217Y		3 Units
Prerequisite: Medically verified disability. Completion of ALPS 206.			Prerequisite: Medically verified disability.		
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
One and one-half hours laboratory per half unit of credit.			One and one-half hours laboratory per half unit of credit.		
May be taken six times for credit.			May be taken six times for credit.		
Enhancement of functional skills to develop and provide quality and ease to daily living skills. An open entry, open exit course.			Activity and discussion focused on a tailored, individualized project for students who require or need additional help in community reintegration.		
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					
One and one-half hours laboratory per half unit of credit.					
May be taken six times for credit.					
Designed to assist ambulatory students with acquired brain injury (ABI) with strength, balance and normal movement. Emphasis on normal patterns of movement.					

ALPS 218	TRANSITION CLASS FOR POST-STROKE PROGRAM	.5 Unit	ALTW 204	COMMUNICATION SKILLS FOR THE DISABLED STUDENT	1 Unit
	Prerequisite: Medically verified disability. Advisory: Pass/NoPass. One hour lecture-laboratory. May be taken six times for credit. Designed to assist the handicapped student to transition from Reach Program to other community programs and activities.			Formerly: ALTW 108 Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit. Enhancement of self-esteem and communication skills in order to increase confidence in interpersonal interactions.	
ALPS 220	CAREGIVING: LEARNING POSITIVE	.5 Unit	ALTW 205	OFFICE SKILLS FOR THE DISABLED STUDENT	2 Units
ALPS 220X	COPING SKILLS	1 Unit		Formerly: ALTW 110 Prerequisite: Verified disability Four hours lecture/laboratory, one hour terminal time. May be taken two times for credit. Practical office skills needed for successful employment. Focuses on filing systems, records management and mail handling. Designed for the disabled student.	
ALPS 220Y		3 Units			
	Prerequisite: Medically verified disability. Advisory: Pass/No Pass. One and one-half hours laboratory per half unit of credit. May be taken six times for 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.				
ADAPTIVE LEARNING: TRANSITION TO WORK					
Adaptive Learning Division		(650) 949-7017	ALTW 206	BEGINNING WORD PROCESSING FOR THE DISABLED STUDENT	3 Units
		www.foothill.edu/al/		Formerly: ALTW 112 Prerequisite: Verified disability Two hours lecture, two hours lecture within laboratory, two hours terminal time. May be taken two times for credit. 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.	
ALTW 104	BASIC MATH SKILLS FOR THE DISABLED STUDENT	1 Unit	ALTW 207	RESOURCES IN THE COMMUNITY FOR THE DISABLED STUDENT	1 Unit
	Formerly SPEH 104. Prerequisite: Verified disability. Two hours lecture-laboratory. May be taken two times for credit. Basic math skills for the disabled. Emphasis on basic math functions, money handling and practical applications.			Formerly: ALTW 115 Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit. Overview of community resources for the disabled student.	
ALTW 201	BASIC ENGLISH FOR THE DISABLED STUDENT	1 Unit	ALTW 208	JOB TRAINING/INTERNSHIP FOR THE DISABLED STUDENT	1.5 Units
	Formerly: ALTW 105 Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit. Basic English skills for the disabled. Emphasis on grammar, sentence and paragraph structure and practical applications.			Formerly: ALTW 113 Prerequisite: Verified disability Four and one-half hours laboratory. May be taken six times for credit. Practical skills needed for successful employment. Emphasis on on-the-job training experiences; discussion and evaluation of one's performance.	
ALTW 202	BASIC MATH SKILLS FOR THE DISABLED STUDENT	1 Unit	ALTW 209	SOCIAL SKILLS FOR THE DISABLED STUDENT	1 Unit
	Formerly: ALTW 104 Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit. Basic math skills for the disabled. Emphasis on basic math functions, money handling and practical applications.			Formerly: ALTW 117 Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit. Enhancement of self-esteem and socialization skills in order to increase confidence in personal and social interactions.	
ALTW 203	LEARNING STYLES & STRATEGIES FOR THE DISABLED STUDENT	1 Unit	ALTW 210	OFFICE APPLICATIONS FOR THE DISABLED STUDENT	2 Units
	Formerly: ALTW 102 Prerequisite: Verified disability Two hours lecture/laboratory. 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.			Formerly: ALTW 120 Prerequisite: Verified disability Four hours lecture/laboratory, one hour internship. May be taken two times for credit. Practical office applications needed for successful employment. Focuses on business etiquette, office equipment and adaptations.	

ALTW 211	INTRODUCTION TO EXCEL FOR THE DISABLED STUDENT	3 Units	ALTW 219	USING THE INTERNET FOR THE DISABLED STUDENT	1 Unit
Prerequisite: Verified disability. Two hours lecture, two hours lecture within laboratory, two hours terminal time. May be taken two times for credit.	Introduction to Excel and its uses for the student with little computer experience. Emphasis on spreadsheets, charts and tables. Designed for the disabled student.		Prerequisite: Verified disability. Two hours lecture/laboratory. May be taken two times for credit.	Hands-on introduction and use of the Internet for the disabled student.	
ALTW 212	JOB SEARCH SKILLS: THE RESUME FOR THE DISABLED STUDENT	1 Unit	ALTW 227	SKILLS LAB FOR THE DISABLED STUDENT	.5 Unit
Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit.	Focuses on resume writing techniques and filling out practice job applications.		Prerequisite: Verified disability. Corequisite: Concurrent enrollment in another Transition to Work Program class. One and one-half hours laboratory. May be taken six times for credit.	Practical application of learning strategies, time management, organization and planning skills which are taught in Transition To Work classes.	
ALTW 213	WORK ATTITUDES & BEHAVIOR FOR THE DISABLED STUDENT	1 Unit	ALTW 228	SPECIAL PROJECTS FOR THE DISABLED STUDENT	1 Unit
Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit.	Designed to help the students develop appropriate work behavior and attitudes. Focuses on attitudes, fears, and expectations as they relate to work.		Prerequisite: Verified disability. Two hours laboratory. May be taken two times for credit.	Activity and discussion focused on a tailored, individualized project. Designed for the disabled student.	
ALTW 214	JOB SEARCH SKILLS: THE INTERVIEW FOR THE DISABLED STUDENT	1 Unit	ALTW 401	ELIGIBILITY ASSESSMENT FOR THE DISABLED STUDENT	0 Units
Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit.	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.		Prerequisite: Medically verified disability. One hour laboratory. May be repeated.	Evaluation and assessment to determine eligibility for the Transition to Work (TTW) Program.	
ALTW 215	TRANSITION TO WORK FOR THE DISABLED STUDENT	1 Unit	ALTW 402	TRANSITION TO WORK ORIENTATION	0 Units
Prerequisite: Verified disability. Two hours lecture/laboratory. May be taken two times for credit.	Prepare and evaluate personal, educational and vocational information for transition to work.		Formerly SPEH 400. Prerequisite: Verified disability. One and one-half hours laboratory. May be repeated.	Orientation to the Transition to Work Program and campus policies, resources and services. Formulation of the Student Educational Contract (SEC).	
ALTW 216	DISABILITY & THE LAW FOR THE DISABLED STUDENT	1 Unit	ADVERTISING		
Prerequisite: Verified disability Two hours lecture/laboratory. May be taken two times for credit.	Understanding basic citizens' rights and responsibilities. Emphasis on the Americans with Disabilities Act.		Business & Social Sciences Division	(650) 949-7322 www.foothill.edu/bss/	
ALTW 217	INTERMEDIATE COMPUTER APPLICATIONS FOR THE DISABLED STUDENT	3 Units	ADVT 57	PRINCIPLES OF ADVERTISING	4 Units
Prerequisite: Verified disability. Two hours lecture, two hours lecture within laboratory, two hours terminal time. May be taken two times for credit.	Intermediate word processing, spreadsheet and file management skills for the disabled student. Emphasis on office applications needed for employment.		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.	
ALTW 218	CURRENT EVENTS FOR THE DISABLED STUDENT	1 Unit	ALLIED HEALTH SCIENCES		
Prerequisite: Verified disability. Two hours lecture/laboratory. May be taken two times for credit.	Survey of current events for the disabled student.		Biological & Health Sciences Division	(650) 949-7249 www.foothill.edu/biol/	
ALTW 219	USING THE INTERNET FOR THE DISABLED STUDENT	1 Unit	AHS 200	ORIENTATION TO HEALTH CARE CAREERS	3 Units
Prerequisite: Verified disability. Two hours lecture/laboratory. May be taken two times for credit.			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 1 INTRODUCTION TO PHYSICAL ANTHROPOLOGY 4 Units

Four hours lecture.

Survey of the concepts, methods, and theories of biological evolution, as they apply to the human species. Focus on genetics, natural selection, primatology, paleoanthropology, biocultural adaptations, human variation/commonality, and current bioethical issues. **[CAN ANTH 2]**

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, 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 tools styles, social organization, urbanization and the domestication of plants and animals.

ANTH 4 FIRST PEOPLES OF NORTH AMERICA 4 Units

Four hours lecture.

Survey of Indian societies and cultures, north of Mexico, from a cultural perspective. Includes social organization, economics, technology and belief systems. Historic and current relationship between the federal government and the Native Americans. Contemporary issues of Native American communities.

ANTH 5 MAGIC, SCIENCE & RELIGION 4 Units

Four hours lecture.

Explores the ways in which people have attempted to gain mastery over the natural and supernatural worlds beginning with prehistoric times and concluding with modern day society and the contemporary world. Cross-cultural study of the beliefs about the nature of reality, spirituality, death, magic, science and healing.

ANTH 6 PEOPLES OF AFRICA 4 Units

Four hours lecture.

Historical and contemporary cultural diversity of Africa emphasizing its social, political and economic organizational structures. Focus on the three religious influences by which African peoples and their resources have been exploited. Problems of acculturation and urbanization as they relate to modernization and expansion of international trade and development.

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 ANTH 8LX 2 Units ANTH 8LY 3 Units

Prerequisites: ANTH 1 or ANTH 8

Three hours laboratory for each unit of credit.

Laboratory methods and techniques of archaeology, including cataloging, care and analysis of artifacts, bone recognition, and archaeological excavation.

ANTH 11 ARCHAEOLOGICAL FIELD METHODS 4 Units

Advisory: Previous or concurrent enrollment in ANTH 8 recommended.

One hour lecture, nine hours laboratory.

May be taken three times for credit.

Introduction to archaeological field methods. Locating different types of archaeological sites with field survey. Methods of field excavation. Study of local artifact types and lab techniques for artifact cleaning and identification. Selection of archaeological site, mapping, excavation, and preparation of artifacts, written analysis.

ANTH 11B ARCHAEOLOGY SURVEY 2 Units

Advisory: Previous or concurrent enrollment in ANTH 8 recommended.

Six hours laboratory.

May be taken three times for credit.

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

One hour lecture.

May be taken six times for credit.

Seminar in directed reading and discussion in anthropology. Specific topics are determined in consultation with instructor.

ANTH 36 SPECIAL PROJECTS IN ANTHROPOLOGY 1 Unit ANTH 36X 2 Units ANTH 36Y 3 Units ANTH 36Z 4 Units

ANTH 36 One hour lecture. ANTH 36X Two hours lecture. ANTH 36Y Three hours lecture.

ANTH 36Z four hours lecture.

May be taken for a maximum of six units.

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.

APPRENTICESHIP 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, 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 State Division of Apprenticeship Standards. This limitation is authorized by Section 3074.3 of the State Labor Code. All classes are held at off-campus sites. For information, contact:

Plumbing, Pipefitting, Refrigeration, Heating and Air Conditioning
(408) 453-6330.

Sheet Metal
San Jose (408) 293-1144; San Francisco (415) 431-1676;
San Leandro (510) 483-9035; San Mateo (650) 652-9672

Electrician, Residential Electrician
San Jose (408) 453-1022; San Francisco (415) 431-5853

Elevator Construction
San Francisco (415) 431-9016

Sound & Communication
San Jose & San Francisco (408) 453-3101

ART

Fine Arts & Communications Division (650) 949-7262
www.foothill.edu/fa/

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 Units
Four hours lecture.

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. **[ART 2A & 2B=CAN ART 2; ART 2A & 2B & 2C=CAN ART SEQ A]**

ART 2B ART HISTORY 4 Units
Four hours lecture.

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 2A & 2B=CAN ART 2; ART 2A & 2B & 2C=CAN ART SEQ A; ART 2B & 2C = CAN ART 4]**

ART 2C ART HISTORY 4 Units
Four hours lecture.

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. **[ART 2A & 2B=CAN ART 2; ART 2A & 2B & 2C=CAN ART SEQ A; ART 2B & 2C = CAN ART 4]**

ART 2D AFRICAN, OCEANIC & NATIVE AMERICAN ART 4 Units

Four hours lecture.
Survey of traditional arts of selected cultures from Africa, the Oceanic and Native America.

ART 2E A HISTORY OF WOMEN IN ART 4 Units
Formerly ART 21.

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 Units

Four hours lecture.
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

Corequisite: Students taking this course to satisfy the CSU General Education requirement in arts must concurrently enroll in ART 4AX for 1 unit.

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. **[ART 4A & 4B = CAN ART 8]**

ART 4AX DRAWING CRITIQUE SEMINAR 1 Unit

Corequisite: Concurrent enrollment in ART 4A.

Three hours laboratory.
Examination and critique of visual arts subjects.

ART 4B INTERMEDIATE DRAWING 3 Units

Advisory: ART 4A recommended.

Six hours lecture-laboratory.
Continuation of ART 4A with the use of color, and increased emphasis on developing composition and content. **[ART 4A & 4B = CAN ART 8]**

ART 4C ADVANCED DRAWING 3 Units

Corequisite: Students taking this course to satisfy the transfer General Education requirement in humanities must concurrently enroll in ART 4CX for 1 unit.

Advisory: ART 4B
Six hours lecture-laboratory.
May be taken two times for credit.
Continuation of Art 4B with increased emphasis on textures, spatial complexity and development of individual expression.

ART 4CX DRAWING CRITIQUE SEMINAR 1 Unit

Corequisite: Concurrent enrollment in Art 4C

Three hours laboratory.
Examination and critique of visual arts subjects.

ART 4D FIGURE DRAWING 3 Units

Advisory: ART 4A, 4B recommended.

Six hours lecture-laboratory.
May be taken three times for credit.
Continuation of principles introduced in ART 4A and 4B with special emphasis on the fundamentals of drawing the human figure. **CAN ART 24**

ART 4E PORTRAIT DRAWING 3 Units

Advisory: ART 4A, 4B recommended.

Six hours lecture-laboratory.
May be taken three times for credit.
Fundamentals of drawing the human head. Emphasis on use of charcoal to render the head in light and shadow.

ART 4L DRAWING LABORATORY 1 Unit

Corequisite: Concurrent enrollment in ART 4A, 4B, or 4C.

Advisory: ART 4A, 4B recommended.
Three hours laboratory.
May be taken for a total of four units of credit. Pass/No Pass.
Supervised studio practice in drawing projects.

ART 5A	BASIC TWO-DIMENSIONAL DESIGN	3 Units	ART 14	AMERICAN ART	4.5 Units
<i>Formerly: ART 15A</i>			Four hours lecture, one hour laboratory.		
Corequisite: Students taking this course to satisfy the transfer General Education requirement in humanities must concurrently enroll in ART 5AX for one unit.			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.		
Six hours lecture-laboratory.					
Introduction to design concepts and their applications in two dimensions. Practice in organizing shapes, lines and values to create unified visual statements. [CAN ART 14]					
ART 5AX	DESIGN CRITIQUE SEMINAR	1 Unit	ART 19A	PAINTING	3 Units
<i>Formerly: ART 15AX</i>			Advisory: ART 4A or ART 5A; ART 4B or ART 20A recommended.		
Corequisite: concurrent enrollment in ART 5A.			Six hours lecture-laboratory.		
Three hours laboratory.			Studio experiences in basic techniques of painting and composition using oil and/or acrylic paints. [ART 19A & 19B = CAN ART 10]		
Examination and critique of visual arts subjects.					
ART 5B	THREE-DIMENSIONAL DESIGN	3 Units	ART 19B	PAINTING	3 Units
Prerequisite: ART 5A.			Prerequisite: ART 19A.		
Advisory: ART 4A recommended.			Six hours lecture-laboratory.		
Six hours lecture-laboratory.			Continuation of ART 19A. Further studies in studio techniques. [ART 19A & 19B = CAN ART 10]		
Introduction to three-dimensional design elements and principals with an emphasis on sculptural and structural concepts applied in projects using various materials. [CAN ART 16]					
ART 5L	DESIGN LABORATORY	1 Unit	ART 19C	PAINTING	3 Units
Corequisite: Concurrent enrollment in ART 5A or 5B			Advisory: ART 19B recommended.		
Advisory: Pass/No Pass			Six hours lecture-laboratory.		
Three hours laboratory.			May be taken two times for credit.		
May be taken for three units of credit.			Advanced studio experiences in techniques of painting and composition using oil and/or acrylic paints.		
Supervised studio practice in design projects.					
ART 6	COLLAGE & COMPOSITION	3 Units	ART 19L	PAINTING LABORATORY	1 Unit
Advisory: Recommended Art 5A or Art 4A			Corequisite: Concurrent enrollment in ART 19A, 19B, or 19C.		
Six hours lecture-laboratory.			Advisory: Pass/No Pass.		
May be taken three times for credit.			Three hours laboratory.		
Studio experience in structuring the elements of visual form using the exploratory medium of collage. Development of a personal sensitivity to visual organization and the vocabulary of art.			May be taken for a total of four units of credit.		
			Supervised studio practice in painting projects.		
ART 8	BASIC PERSPECTIVE DRAWING	3 Units	ART 20A	COLOR	3 Units
Prerequisite: ART 4A			Six hours lecture-laboratory.		
Advisory: Not open to students with credit in GRDS 75.			A fundamental course in color and its creative application.		
Six hours lecture/laboratory					
Sketching objects realistically in linear representation. Exploring ways to depict three-dimensional space on a flat drawing surface.					
ART 9	MATERIALS & MEDIA	3 Units	ART 20B	COLOR	3 Units
Six hours lecture/laboratory.			Prerequisite: ART 20A.		
An introduction to basic materials and techniques of the artist with practical experience in their simple applications. No required background or experience required.			Six hours lecture-laboratory.		
			Continued practice in creative application of color theory.		
ART 11	INTRODUCTION TO MEXICAN ART & ARCHITECTURE	4 Units	ART 34	HONORS INSTITUTE SEMINAR IN ART	1 Unit
Four hours lecture.			Prerequisite: Membership in the Honors Institute.		
A comparative and integrative study of the Indian, Spanish and French periods in Mexico from prehistory to present times. The cultural impact of this diversity upon the arts of contemporary Mexico and the United States will be examined using text and lecture, slides and educational videos.			One hour lecture.		
			A seminar in directed readings, discussions and projects in art. Specific topics to be determined by the instructor.		
ART 12	INTRODUCTION TO ASIAN ART	4 Units	ART 36	HISTORY OF GRAPHIC DESIGN	4 Units
Four hours lecture.			Advisory: Not open to students with credit in GID 1. Pass/No Pass.		
An introduction to the art of India, China and Japan from the Neolithic Age to the present, covering painting, sculpture, architecture and ceramics.			Four Hours lecture.		
			A study of the development of visual communication in fine art, graphic design and illustration. Emphasis on the role, impact and interpretation of images, symbols, and typography used in informative and persuasive media.		
ART 13	INTRODUCTION TO ISLAMIC ART	4 Units	ART 37A	BEGINNING ETCHING	3 Units
Four hours lecture.			Advisory: Not open to students with credit in GID 42.		
The arts and architecture of the Islamic peoples from the seventh through the 17th Century.			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	ART 44L	CERAMICS LABORATORY	.5 Unit
Prerequisite: ART 37A.			Corequisite: Student must be currently enrolled in ART 44.		
Six hours lecture/laboratory.			Advisory: Pass/No Pass.		
Continuation of ART 37A with introduction of further techniques including aquatint, sugarlift, photographic processes, and contemporary developments in the discipline.			Two hours laboratory.		
			May be taken two times for credit.		
			Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 44.		
ART 37C	ADVANCED ETCHING	3 Units	ART 45A	BEGINNING CERAMICS HANDBUILDING	3 Units
Prerequisite: ART 37B.			Advisory: Concurrent enrollment in ART 45AL recommended. Students taking this course to satisfy the AA degree or the transfer General Education requirement in Humanities must concurrently enroll in ART 45AX for 1 unit		
Six hours lecture/laboratory.			Six hours lecture-laboratory.		
May be taken twice for credit.			May be taken twice for credit.		
The application and exploration of techniques introduced in ART 37A and ART 37B toward the development of personal and expressive imagery and style.			An introduction to techniques of handbuilding and basic glazing. [ART 45A & 45AX = CAN ART 6]		
ART 39A	BEGINNING SCREEN PRINTING	3 Units	ART 45AL	CERAMICS LABORATORY	.5 Unit
Advisory: ART 4A or 5A. Not open to students with credit in GID 46.			Corequisite: Student must be currently enrolled in ART 45A.		
Six hours lecture-laboratory.			Advisory: Pass/No Pass.		
An introduction to screen printing processes, exploring the basic techniques for making cut stencil designs and drawn stencil images.			Two hours laboratory.		
			May be taken two times for credit.		
			Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45A.		
ART 39B	PHOTOGRAPHIC SCREEN PRINTING	3 Units	ART 45AX	BEGINNING CERAMIC SEMINAR	1 Unit
Prerequisite: ART 39A or GID 46.			Three hours laboratory		
Advisory: Photo 1 or GID 74 recommended.			Examination and critique of visual arts subjects in order to develop observational and conceptual skills. Activities include group discussion, written critiques, and museum and gallery reviews. [ART 45A & 45AX = CAN ART 6]		
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	ART 45B	BEGINNING CERAMICS POTTER'S WHEEL	3 Units
Prerequisite: ART 39B.			Advisory: Concurrent enrollment in Art 45BL recommended. Students taking this course to satisfy the transfer General Education requirement in Humanities must concurrently enroll in ART 45BX for one unit.		
Six hours lecture/laboratory.			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.			May be taken two times for credit.		
			An introduction to techniques of throwing on the potter's wheel and basic glazing.		
ART 39L	SCREEN PRINTING LABORATORY	.5 Unit	ART 45BL	CERAMICS LABORATORY	.5 Unit
Corequisite: Concurrent enrollment in Art 39A, B, or C.			Corequisite: Student must be currently enrolled in ART 45B.		
Two hours supervised laboratory practices.			Advisory: Pass/No Pass.		
May be taken six times for credit.			Two hours laboratory.		
Supervised studio practice in screen printing projects.			May be taken two times for credit.		
			Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45B.		
ART 43	MOLD CONSTRUCTION FOR CERAMIC ART	3 Units	ART 45C	ADVANCED CERAMICS	3 Units
Prerequisite: ART 45A or 45B.			Prerequisite: ART 45A and 45B.		
Advisory: Concurrent enrollment in ART 45L or 45LX recommended.			Advisory: Concurrent enrollment in ART 45L or 45LX recommended.		
Six hours lecture-laboratory.			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.			May be taken two times for credit.		
			Laboratory practice in throwing advanced forms on the potter's wheel, combining hand-built and wheel-thrown forms and glazing.		
ART 43L	CERAMICS LABORATORY	.5 Unit	ART 45CL	CERAMICS LABORATORY	.5 Unit
Corequisite: Student must be currently enrolled in ART 43.			Corequisite: Student must be currently enrolled in ART 45C.		
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Two hours laboratory.			Two hours laboratory.		
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 43.			May be taken two times for credit.		
			Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45C.		
ART 44	CERAMIC SCULPTURE	3 Units			
Prerequisite: ART 45A.					
Advisory: Concurrent enrollment in ART 45L or 45LX recommended.					
Six hours lecture-laboratory.					
May be taken twice for credit.					
Studio practice in designing and creating original ceramic sculpture.					

ART 45D	ADVANCED CERAMICS DECORATING TECHNIQUES	3 Units	ART 66	THE ART OF SPAIN	3 Units
Prerequisites: ART 45A or ART 45B			Advisory: ART 1.		
Advisory: Concurrent enrollment in Art 45L or Art 45LX recommended.			Four hours lecture/laboratory.		
Six hours lecture-laboratory.			Historical survey of painting, sculpture and architecture from Roman times to the 21st Century.		
May be taken two times for credit.					
Studio practice in a variety of decorating and glazing methods for greenware and bisqueware.					
ART 45DL	CERAMICS LABORATORY	.5 Unit	ART 67	ITALIAN ART	3 Units
Corequisite: Student must be currently enrolled in ART 45D.			Advisory: ART 1 recommended.		
Advisory: Pass/No Pass.			Four hours lecture.		
Two hours laboratory.			Historical survey of painting, sculpture and architecture from Roman times to the 18th Century, through illustrated lectures, field trips and assigned readings.		
May be taken two times for credit.					
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45D.					
ART 45F	LOW-TEMPERATURE CERAMIC FIRING & GLAZING TECHNIQUES	3 Units	ART 69	INTRODUCTION TO PRINTMAKING	3 Units
Prerequisite: ART 45A or 45B.			Six hours lecture-laboratory.		
Advisory: Concurrent enrollment in ART 45FL recommended.			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 2D]		
May be taken two times for credit.					
Studio practice in the glazing and firing of ceramic pieces using four low-temperature methods: electric kiln oxidation firing, luster firing, raku firing and pit firing.					
ART 45FL	CERAMICS LABORATORY	.5 Unit	ART 70	KILN DESIGN, CONSTRUCTION & OPERATION	3 Units
Corequisite: Student must be currently enrolled in ART 45F.			Prerequisites: ART 45A or ART 45B.		
Advisory: Pass/No Pass.			Advisory: Concurrent enrollment in ART 45L or ART 45LX recommended.		
Two hours laboratory.			Six hours lecture-laboratory.		
May be taken two times for credit.			Studio practice in designing and building ceramic kilns.		
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45F.					
ART 45L	CERAMICS LABORATORY	.5 Unit	ART 72	STUDIO ART PORTFOLIO PREPARATION	3 Units
Corequisite: Student must be currently enrolled in a two or three unit ceramics course.			One-hour lecture, five hours lecture-laboratory		
Four hours laboratory for each unit of credit.			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.		
May be taken six times for credit.					
Supervised studio practice in ceramics processes, related to skills and materials of other ceramics courses in which the student is currently enrolled.					
ART 45LX	CERAMICS LABORATORY	1 Unit	ART 80	MURAL MAKING: COMMUNITY ART PROJECT	3 Units
Corequisite: Student must be currently enrolled in a two or three unit ceramics course.			Formerly: ART 18		
Four hours laboratory for each unit of credit.			Advisory: Art 4A or 15A; Art 19A, 20A		
May be taken six times for credit.			Six hours lecture/laboratory.		
Supervised studio practice in ceramics processes, related to skills and materials of other ceramics courses in which the student is currently enrolled.			Design and production of public mural projects. Exploration of history, cultural empowerment, identity and communication through site specific public art. Studio experience in basic painting techniques and composition.		
ART 47	WATERCOLOR	4 Units	ART 83	SERVICE LEARNING PROJECTS	4 Units
Advisory: ART 4A or ART 5A, ART 4B, ART 20A recommended.			Advisory: Completion of entry level design and software courses recommended.		
Six hours lecture-laboratory.			Six hours lecture/laboratory, three hours laboratory.		
May be taken three times for credit.			May be taken three times for credit.		
Study of transparent and opaque watercolor techniques. Emphasis on basic techniques of painting and composition.			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 56	INTRODUCTION TO COMPUTER GRAPHICS	4 Units	ART 86	PAINTING WITH THE COMPUTER	3 Units
Advisory: Familiarity with computer operating systems, ART 4A or GID 70; ART 5A; PHOT 1 recommended. Not open to students with credit in GID 74 or PHOT 75.			Advisory: Familiarity with computer operations recommended.		
Six hours lecture/laboratory, three hours laboratory.			Two hours lecture, three hours laboratory.		
Basic instruction using a computer for painting, drawing, image processing, photo composites and typography. Emphasis on image making and creative problem solving.			May be taken three times for credit.		
			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		2 Units
Advisory: Pass/No Pass.		
One and one-half hours laboratory for each half unit of credit.		
May be taken six times for credit.		
For students who desire or require additional help in attaining comprehension and competency in learning skills.		

ASTR 96	ECLIPSES	2 Units
Two hours lecture.		
Mechanics of what causes eclipses of the Sun and Moon. History of eclipse observations. Proper methods of observing eclipses. Astrophotography of the eclipse, observational sessions at local planetariums. Special focus on recent or upcoming eclipses.		

ASTR 105	SEMINAR IN HANDS-ON ASTRONOMY	1 Unit
Corequisite: ASTR 10A or 10B must be taken concurrently or earlier.		
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.

ASTR 190	DIRECTED STUDY	.5 Unit
ASTR 190X		1 Unit
ASTR 190Y		1.5 Units
ASTR 190Z		2 Units

Advisory: Pass/No Pass.
For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.
May be taken six times for credit.

For students who desire or require additional help in attaining comprehension and competency in astronomy.

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: STAR, 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 10L	ASTRONOMY LABORATORY	1 Unit
Corequisite: ASTR 10A or ASTR 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 earlier.
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

Advisory: Interest in the pursuit of astronomical knowledge. Previous experience in astronomy is optional.
Three hours laboratory for each unit of credit.
May be repeated for up to a total of 18 units of credit.

A seminar in directed reading and discussion in astronomy. An opportunity to do astronomical research and observing at Foothill College Observatory.

ATHLETICS

See Human Performance.

BIOLOGY

Biological & Health Sciences Division	(650) 949-7249
www.foothill.edu/bio/	

BIOL 1A	PRINCIPLES OF CELL BIOLOGY	6 Units
Prerequisite: CHEM 1A.		

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 instruction for laboratory, four hours laboratory and 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; BIOL 1A & 1B & 1C = CAN BIOL SEQ A]

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 instruction for laboratory, four hours laboratory and one hour collaborative learning.

An introduction to the structure and physiological processes of plants and animals. Transport systems, reproduction, nutrition, gas exchange, regulation of the internal environment, response to external stimuli, defense against disease, nervous systems, hormones, and locomotion. [BIOL 1A & 1B & 1C = CAN BIOL SEQ A]

BIOL 1C EVOLUTION, SYSTEMATICS & ECOLOGY 6 Units	BIOL 17 BIOTECHNOLOGY & SOCIETY 4 Units
Prerequisite: BIOL 1A	Four hours lecture.
Advisory: Students taking the biology majors' sequence (1A, B, C, D) are strongly advised to take the sequence in order and in its entirety.	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.
Four hours lecture, two hours instruction for 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, protists, plants, animals and fungi) and their evolutionary history. [BIOL 1A & 1B & 1C = CAN BIOL SEQ A]	
BIOL 1D MOLECULAR GENETICS 4 Units	BIOL 19 ENVIRONMENTAL BIOLOGY 4 Units
Prerequisite: BIOL 1A	Four hours lecture.
Advisory: Students taking the biology majors' sequence (1A, B, C, D) are strongly advised to take the sequence in order and in its entirety.	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.
Students may choose to take BIOL 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	BIOL 19L ENVIRONMENTAL BIOLOGY LABORATORY 1 Unit
Prerequisite: BIOL 1A	One hour instruction for laboratory, two hours laboratory, one hour collaborative learning. In-class field trips.
Advisory: Concurrent or prior enrollment in BIOL 1D.	An introduction to environmental biology through laboratory and field experiments, examination of local examples illustrating ecological concepts, use of sampling techniques to assess environmental quality, and student research of environmental topics.
Four hours lecture-laboratory.	
Introduction to the biological laboratory techniques and methods used in molecular biology laboratories. 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 10 GENERAL BIOLOGY: BASIC PRINCIPLES 5 Units	BIOL 33A CELL BIOLOGY SEMINAR 1 Unit
Four hours lecture, one hour instruction for laboratory, two hours laboratory and one hour collaborative learning.	One hour lecture.
Methods of science and basic principles of biology. Special emphasis on genetics, ecology, overpopulation, nutrition, and disease prevention.	May be repeated three times for credit.
	A seminar in directed readings, discussions, and critical analysis of current journal articles in the field of cell biology.
BIOL 12 HUMAN GENETICS 4 Units	BIOL 33B ANATOMY & PHYSIOLOGY SEMINAR 1 Unit
Four hours lecture.	One hour 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.	May be repeated three times for credit.
	A seminar in directed readings, discussions, and critical analysis of current journal articles in the fields of anatomy and physiology of plants and animals.
BIOL 13 MARINE BIOLOGY 5 Units	BIOL 33C POPULATION BIOLOGY SEMINAR 1 Unit
Four hours lecture, one hour instruction in laboratory, two hours laboratory, three all-day field trips and one hour collaborative learning.	One hour lecture.
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.	May be repeated three times for credit.
	A seminar in directed readings, discussions, and critical analysis of current journal articles in the fields of ecology, systematics, and evolution.
BIOL 14 HUMAN BIOLOGY 5 Units	BIOL 33D MOLECULAR GENETICS SEMINAR 1 Unit
Four hours lecture, one hour instruction for laboratory, two hours laboratory, and one hour collaborative learning.	One hour lecture.
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.	May be repeated three times for credit.
	A seminar in directed readings, discussions, and critical analysis of current journal articles in the field of molecular genetics.
BIOL 15 CALIFORNIA ECOLOGY/NATURAL HISTORY 5 Units	BIOL 34 HONORS INSTITUTE SEMINAR IN BIOLOGY 1 Unit
Four hours lecture, one hour instruction for laboratory, two hours laboratory, all-day field trips.	Prerequisite: Membership in the Honors Institute.
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.	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 1 Unit	
BIOL 35X PROJECTS IN BIOLOGY 2 Units	
Three hours laboratory or one hour seminar for each unit of credit.	
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 and high school chemistry or CHEM 30A or equivalent recommended. Critical reading skills and knowledge of English sentence structure and ability to comprehend naturally spoken English in academic context; or ESL 25 and ESL 165 recommended.			.5 Unit
It is recommended that students take BIOL 40A, B, and C in sequence. Four hours lecture, one hour instruction for laboratory, two hours laboratory and one hour collaborative learning.			1 Unit
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. [BIOL 40A & 40B & 40C = CAN BIOL SEQ B]			1.5 Units
			2 Units
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY	5 Units	
Advisory: BIOL 40A; Recommended: Critical reading skills and knowledge of English sentence structure, and ability to comprehend naturally spoken English in academic context; or ESL 25 and ESL 165; BIOL 40A, 40B and 40C be taken in sequence.			
Four hours lecture, one hour instruction for laboratory, two hours laboratory and one hour collaborative learning.			
A continuation of BIOL 40A. Anatomy and physiology of the nervous system, cardiovascular system and respiratory system. [BIOL 40A & 40B & 40C = CAN BIOL SEQ B]			
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY	5 Units	
Advisory: BIOL 40B; critical reading skills and knowledge of English sentence structure and ability to comprehend naturally spoken English in academic context; or ESL 25 and ESL 165 recommended. It is recommended that students take BIOL 40A, B, and C in sequence.			
Four hours lecture, one hour instruction for laboratory, two hours laboratory and 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. [BIOL 40A & 40B & 40C = CAN BIOL SEQ B]			
BIOL 41	MICROBIOLOGY	5 Units	
Pre-requisite: High school chemistry or CHEM 30A.			
Advisory: ESL 25 and ESL 165 recommended. Critical reading skills and knowledge of English sentence structure, and ability to comprehend naturally spoken English in academic context.			
Three hours lecture, two hours instruction for laboratory, four hours laboratory and 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, antiseptics, 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 recommended.			
Four hours lecture.			
Introduction to the medical aspects of nutrition. Biological function and chemical classification of nutrients. 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 recommended.			
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 190	DIRECTED STUDY		.5 Unit
BIOL 190X			1 Unit
BIOL 190Y			1.5 Units
BIOL 190Z			2 Units
Advisory: Pass/No Pass.			
One half-hour lecture and one and one-half laboratory, three and one-half, five and one-half, or seven and one-half hours laboratory.			
May be taken six times for credit.			
Instructor permission required. For students who desire or require additional help in attaining comprehension and competency in learning skills.			
BIOTECHNOLOGY LABORATORY TECHNICIAN			
Biological & Health Sciences Division		(650) 949-7249 www.foothill.edu/bio/	
BTEC 50	CAREERS IN BIOTECHNOLOGY/ BIOINFORMATICS	2 Units	
Advisory: Basic knowledge of biology is recommended. Background in computer technology, especially knowledge and skills for navigating Web resources, is useful.			
Two hours lecture, two hours terminal time.			
Not repeatable.			
This course, which is taught online, uses the Internet to guide both new and transitioning students and working professionals through the maze of opportunities, and the education and work experience requirements, in the field of bioscience. Students will navigate the Internet using links, Web resources, and guided exercises from the ETUDES learning portal.			
BTEC 51A	CELL BIOLOGY FOR BIOTECHNOLOGY	3 Units	
Three hours lecture			
Introduction to cell biology. Topics to include cellular and subcellular structure, cellular metabolism, DNA replication, transcription and translation.			
BTEC 51AL	CELL BIOLOGY LAB FOR BIOTECHNOLOGY	3.5 Units	
Prerequisites: Admission to the Biotechnology Program. High school algebra or MATH 101, eligibility for ENGL 100 and 110 or ESL 25; high school biology or BIOL 10, CHEM 30A and 30B (1A and 1B for transfer) or equivalent, concurrent enrollment in BTEC 51A.			
3 hours lecture/laboratory, 6 hours laboratory, 2 hours collaborative learning.			
Introduction to the biological laboratory techniques and methods used in cell biology. Topics to include solution preparation, use of pH meters, cellular fractionation by centrifugation, enzymology, spectrophotometry, chromatography, microscopy, and electrophoresis. Laboratory exercises will also reinforce scientific method, lab safety, importance of laboratory notebooks, applied problem solving, and fundamentals of instrumentation.			
BTEC 52A	MOLECULAR BIOLOGY FOR BIOTECHNOLOGY	3 Units	
Three hours lecture.			
Introduction to molecular biology. Topics to include organization of the genome, control of gene expression, oncogenes, molecular events of the cell cycle, theory and applications of recombinant DNA technology.			
BTEC 52AL	MOLECULAR BIOLOGY LABORATORY FOR BIOTECHNOLOGY	3.5 Units	
Prerequisites: BTEC 51AL, concurrent enrollment in, or successful completion of BTEC 52A.			
3 hours lecture-laboratory, 6 hours laboratory, 2 hours collaborative learning.			
Introduction to the biological laboratory techniques and methods used in molecular biology and recombinant DNA technology. Topics to include media preparation, 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, importance of laboratory notebooks, applied problem solving, and fundamentals of instrumentation.			

BTEC 53A	IMMUNOLOGY FOR BIOTECHNOLOGY	3 Units	BTEC 64	PROTEIN ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE	1 Unit
Prerequisites: BTEC 52A.			Two hours lecture-laboratory.		
Three hours lecture.			May be taken two times for credit.		
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.			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 53AL	IMMUNOLOGY & VIROLOGY LABORATORY FOR BIOTECHNOLOGY	3.5 Units	BTEC 65	DNA ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE	1 Unit
Prerequisite: BTEC 52AL.			Advisory: Laboratory experience (high school and/or professional experience). High school biology, chemistry, algebra recommended.		
Corequisite: Concurrent enrollment in BTEC 53A.			Two hours lecture-laboratory.		
Three hours lecture-lab, six hours lab, two hours collaborative learning.			May be taken two times for credit.		
Introduction to the biological laboratory techniques and methods used in immunology and virology. Topics to include the use of antibodies (ELISA, Western blot, immunofluorescence) and viruses (bacteriophages, baculoviruses) in the lab, mammalian cell culture, and hybridoma technology. Laboratory exercises will also reinforce scientific method, lab safety, importance of laboratory notebooks, applied problem solving, and fundamentals of instrumentation.			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 54	BIOTECHNOLOGY EXTERNSHIP	4 Units	BTEC 66	HPLC: BASIC LABORATORY TECHNIQUE	2 Units
Prerequisites: Completion of BTEC 52A, 52AL.			Advisory: High school biology, chemistry, algebra, and laboratory experience recommended.		
Corequisite: Concurrent enrollment in BTEC 53A, 53AL.			Two hours lecture-laboratory.		
Twenty-four hours laboratory.			May be taken two times for credit.		
Externship for Spring Quarter Biotechnology Technician Training 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.			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 55	LABORATORY SAFETY	3 Units	BTEC 67	IMMUNOLOGICAL ASSAYS	1 Unit
Three hours lecture.			Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra.		
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.			Two hours lecture-laboratory.		
BTEC 56X	DIRECTED STUDY	1 Unit	May be taken two times for credit.		
BTEC 56Y		2 Units	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, polyacrylamide gel electrophoresis apparatus, transfer apparatus) will be emphasized.		
BTEC 56Z		3 Units	BTEC 68	POLYMERASE CHAIN REACTION: BASIC LABORATORY TECHNIQUE	1 Unit
Advisory: Pass/No Pass.			Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra.		
Three hours laboratory for each unit of credit.			Two hours lecture-laboratory.		
May be taken three times for credit.			May be taken two times for credit.		
Advanced research and/or project in biotechnology. The specific topic must be determined in consultation with the instructor.			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 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 61	MICROBIAL BIOTECHNOLOGY	4.5 Units			
Prerequisites: BTEC 51A, BTEC 51AL					
Two hours lecture, two hours lecture/laboratory, 4 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 69	BASIC MAMMALIAN CELL CULTURE TECHNIQUES	2 Unit	BTEC 74	OVERVIEW OF REGULATORY AFFAIRS	1 Unit
Prerequisites: Laboratory experience (high school, college and/or professional). Advisory: High school chemistry, biology, algebra recommended. Four hours lecture-laboratory. May be taken two times for credit.	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, CO ₂ incubators, water baths, and the inverted microscope.		Two hours lecture-laboratory. May be taken two times for credit.	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 70	MONOCLONAL ANTIBODY PRODUCTION: HYBRIDOMA TECHNOLOGY	1 Unit	BTEC 75	IMMUNOBIOTECHNOLOGY: BASIC LABORATORY THEORY	2 Units
Prerequisites: Laboratory experience (high school, college and/or professional). Advisories: BTEC 69, BTEC 53A, animal cell culture experience. High school chemistry, biology, algebra. Two hours lecture-laboratory. May be taken two times for credit.	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.		Advisory: Laboratory experience and high school biology, chemistry, and algebra recommended. Two hours lecture. May be taken two times for credit.	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.	
BTEC 71	DNA SEQUENCING & BIOINFORMATICS BASIC LABORATORY TECHNIQUES	2 Units	BTEC 76	INTRODUCTION TO MICROARRAY DATA ANALYSIS	2 Units
Prerequisites: Laboratory experience (high school and/or professional experience). High school biology, chemistry, algebra recommended. 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 expression plasmids, and vectorology. Laboratory exercises will involve DNA and RNA manipulation using established protocols and computer assisted methods (bioinformatics).		Prerequisite: BTEC 51A and MATH 10 (or their equivalents). 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.	
BTEC 72	HPLC: BASIC LABORATORY TECHNIQUE II	2 Units	BTEC 190	DIRECTED STUDY	.5 Unit
Prerequisites: High School biology, chemistry and algebra; laboratory experience, successful completion of BTEC 66 or equivalent experience. 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 190X		1 Unit
BTEC 73	BASIC HISTOTECHNOLOGY TECHNIQUES	1 Unit	BTEC 190Y		1.5 Units
Advisory: Laboratory experience (high school and/or professional experience). High school biology, chemistry, algebra recommended. Two hours lecture-laboratory. May be taken two times for credit.	Introduction to basic histotechnology techniques, including fixation, processing, embedding, sectioning, and staining. Hands-on experience with microtomy techniques for thin and thick sectioning. Theoretical considerations will include selection of equipment, fixatives and stains used for diagnostic purposes in the field of histotechnology. Board certification, HT/HTL, by ASCP (American Society of Clinical Pathologists) will be discussed, and avenues for obtaining employment will be presented. Emphasis will be placed on histotechnology as a diagnostic tool in both the clinical and basic research laboratory. Safety in the laboratory and ergonomic considerations will be discussed along with an understanding of equipment maintenance.		BTEC 190Z		2 Units
			Advisory: May be taken six times for credit. Pass/No pass One-half hour lecture, three and one-half hours lab per unit of credit. For students who desire or require additional help in attaining comprehension and competency in learning skills.		
BUSINESS					
Business & Social Sciences Division					
(650) 949-7322 www.foothill.edu/bss/					
BUSI 10	INTRODUCTION TO BUSINESS INFORMATION PROCESSING	4 Units			
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. Hand-on experience in the use of word processing software, spreadsheet software, presentation graphics software, database software and communications software.				
BUSI 18	BUSINESS LAW I	4 Units			
Four hours lecture.	Introduction to law applicable to business. Social forces and the law; source of law; agencies for enforcement; and court systems and procedures. California law applicable to contracts, tort negligence, agency, and the Uniform Commercial Code. Contemporary Legal Issues. [CAN BUS 8]				

BUSI 19	BUSINESS LAW II	4 Units	BUSI 61	INVESTMENT FUNDAMENTALS	3 Units
Four hours lecture.					
Law of sales, warranty and product liability, partnerships, corporations, personal property, and bailments. The Uniform Commercial Code as related to negotiable instruments and secured transactions, and creditor-debtor rights.					
BUSI 22	PRINCIPLES OF BUSINESS	4 Units	BUSI 62	PRINCIPLES OF SALESMANSHIP	3 Units
Four hours lecture.					
Examination of the principles and functions of business and the objectives and operations of the corporate and small business managerial decision-making process; its relations to consumers and stakeholders and its global orientation. Includes focus on the economic, political, legal, social environments of business and corporate ethics and social responsibility.					
BUSI 34	HONORS INSTITUTE SEMINAR IN BUSINESS	1 Units	BUSI 64	SPECIAL PROJECTS IN BUSINESS	1 Unit
<i>Formerly: BUSI 54</i>					
Prerequisite: Membership in the Honors Institute.			BUSI 64X		2 Units
One hour lecture.			BUSI 64Y		3 Units
Seminar in directed readings, discussions, and projects in business. Specific topics to be determined by the instructor.			BUSI 64Z		4 Units
BUSI 35	DEPARTMENT HONORS PROJECT IN BUSINESS	1 Unit	One hour lecture for each unit of credit.		
<i>Formerly: BUSI 55</i>			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 53	SURVEY OF INTERNATIONAL BUSINESS	4 Units	BUSI 91L	INTRODUCTION TO BUSINESS INFORMATION PROCESSING	4 Units
Advisory: Not open to students with credit in BIS 53.					
Four hours lecture.			<i>Formerly: BUSI 10</i>		
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.			Three hours lecture, two hours laboratory.		
BUSI 55	DEPARTMENT HONORS PROJECTS IN BUSINESS	1 Unit	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.		
One hour lecture.			BUSI 92		
Seminar in business readings, research, critical techniques and practice. Specific topics vary.			FINANCIAL PLANNING PRACTICES		4 Units
Advisory: Pass/No Pass			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		
Four hours lecture.			SMALL BUSINESS MANAGEMENT		3 Units
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.			Three hours lecture.		
BUSI 57	PRINCIPLES OF ADVERTISING	4 Units	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.		
Advisory: Not open to students with credit in ADVT 57.			BUSI 95E		
Four hours lecture.			SMALL BUSINESS EXPORT & IMPORT		3 Units
Contemporary developments of international marketing functions, concepts and business activities that determine global customer demand for products and services.			Advisory: Not open to students with credit in BIS 95E.		
BUSI 58	SURVEY OF INTERNATIONAL MARKETING	4 Units	Three hours lecture.		
Advisory: Not open to students with credit in BIS 58.			Challenges and opportunities of world trade through small business exporting and importing. The basic mechanics, market analysis, pricing, financing, marketing, insurance, transportation and distribution of exports/imports. Expert assistance and resources.		
Four hours lecture.			BUSI 97		
Contemporary developments of international marketing functions, concepts and business activities that determine global customer demand for products and services.			MANAGEMENT SEMINAR		.5 Unit
Formerly BUSI 90.			Advisory: Pass/No Pass.		
Four hours lecture.			One-half hour lecture for each half unit of credit.		
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.			May be taken for six units 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 97D	BASIC MANAGEMENT & SUPERVISION	.5 Unit	BUSI 97K	PERFORMANCE APPRAISAL	.5 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			Six hours lecture		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.		
BUSI 97E	TRANSITION TO SUPERVISOR	.5 Unit	BUSI 97L	THE ART OF LEADERSHIP	.5 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			Six hours lecture		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.		
BUSI 97F	EMPLOYEE MOTIVATION	.5 Unit	BUSI 97M	EFFECTIVE MANAGEMENT PLANNING	.5 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			Six hours lecture		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.		
BUSI 97G	EMPLOYEE COMMUNICATION	.5 Unit	BUSI 97P	DYNAMICS OF MARKETING	.5 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			Six hours lecture		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.		
BUSI 97H	EMPLOYEE TRAINING & DISCIPLINE	.5 Unit	BUSI 97Q	EFFECTIVE MARKETING PLANNING	.5 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			Six hours lecture		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.		
BUSI 97I	PRODUCTIVE INTERVIEWS	.5 Unit	BUSI 97R	SUCCESSFUL PRODUCT STRATEGY	.5 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			Six hours lecture		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.		
BUSI 97J	TIME MANAGEMENT	.5 Unit	BUSI 97S	PRICING FOR PROFIT	.5 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			Six hours lecture		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.		

BUSI 97T	DYNAMICS OF DISTRIBUTION	.5 Unit	BUSI 133A	STARTING A SMALL BUSINESS	1 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			One hour lecture.		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			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 97U	SUCCESSFUL PRODUCT PROMOTION	.5 Unit	BUSI 133E	SMALL BUSINESS MARKETING, RESEARCH & PLANNING	1 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			One hour lecture.		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			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.		
BUSI 97V	STRESS MANAGEMENT	.5 Unit	BUSI 150	BUSINESS COMPUTER LABORATORY	.5 Unit
Advisory: Pass/No Pass.			BUSI 150X		1 Unit
Six hours lecture			BUSI 150Y		1.5 Units
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			BUSI 150Z		3 Units
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Six hours lecture			Three hours laboratory for each unit of credit.		
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.			An open computer laboratory for students to develop and use computer programs and use the computer in conjunction with other business projects.		
BUSI 97W	PRACTICING MANAGEMENT SKILLS: ETHICS & CHANGE	.5 Unit	BUSINESS/OFFICE TECHNOLOGY		
Advisory: Pass/No Pass.			Computers, Technology & Information Systems Division (650) 949-7236 www.foothill.edu/ctis/		
Six hours lecture					
A highly participative and experiential course that defines and develops effective leadership qualities for today's and tomorrow's organizations. Through theoretical and practical applications students will gain experience in understanding that leadership is a constantly evolving and shifting role that requires self knowledge, a strong vision and a sense of group purpose.					
BUSI 97X	MANAGEMENT SEMINAR	1 Unit	B T 51A	PROFESSIONAL KEYBOARDING I (BEGINNING)	1 Unit
BUSI 97Y		1.5 Units	Advisory: Students who have had previous training in typewriting or keyboarding and can keyboard at least 30 words a minute should enroll in BT 51B.		
BUSI 97Z		3 Units	Two hours lecture-laboratory.		
Advisory: Pass/No Pass.			Develop and master correct keyboarding skills and techniques on the microcomputer using the touch system.		
One-half hour lecture for each half unit of credit.			B T 51B	PROFESSIONAL KEYBOARDING II (BASIC FORMATTING)	1 Unit
May be taken for six units of credit.			Prerequisite: BT 51A or ability to typewrite/keyboard straight copy at a minimum rate of 30 wpm for two minutes with two or fewer errors.		
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.			Two hours lecture-laboratory.		
BUSI 102	PRACTICAL PERSONAL FINANCE	1 Unit	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.		
Two hours lecture-laboratory.			B T 51C	PROOFREADING I	1 Unit
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.			Two hours lecture-laboratory.		
			Development of proofreading and editing skills in preparation for office occupations. Hands-on experience with proofreading software.		
BUSI 120	DISPUTE RESOLUTION & MEDIATION	3.5 Units	B T 59	INTEGRATED BUSINESS COMMUNICATION	5 Units
Three and one-half hours lecture.			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 BT 59A and BT 59B.		
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.			Two hours lecture, Two hours lecture-lab, four hours terminal time		
BUSI 131B	HOW TO START A HOME-BASED BUSINESS	.5 Unit	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.		
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.					

BUSINESS: INTERNATIONAL STUDIES

Business & Social Sciences Division

(650) 949-7322
www.foothill.edu/bss/

BIS 53 SURVEY OF INTERNATIONAL BUSINESS 4 Units

Advisory: Not open to students with credit in BUSI 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.

BIS 58 SURVEY OF INTERNATIONAL MARKETING 4 Units

Advisory: Not open to students with credit in BUSI 58.

Four hours lecture.

Contemporary developments of international marketing functions, concepts and business activities that determine global customer demand for products and services.

BIS 95E SMALL BUSINESS EXPORT & IMPORT 3 Units

Advisory: Not open to students with credit in BUSI 95E.

Three hours lecture.

The challenge and opportunities of world trade through small business exporting and importing. The basic mechanics, market analysis, pricing, financing, marketing, insurance, transportation and distribution of exports/imports. Expert assistance and resources.

CAREER LIFE PLANNING

Counseling Division

(650) 949-7296
www.foothill.edu/transfer/

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 76A or CRLP 76.

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, Self-Assessment course.

One hour lecture.

May be taken three times for credit.

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.

One hour lecture.

May be taken three times for credit.

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.

One hour lecture.

May be taken three times for credit.

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.

One hour lecture.

May be taken three times for credit.

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 and CRLP 74.

One hour lecture.

May be taken three times for credit.

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 and 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/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/cellilo/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/cellilo/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/cellilo/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/cellilo/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 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/cellilo/CRLP/occupations.htm>.

CRLP 90 HIGH-TECH CAREER EXPLORATION ON THE INTERNET 1 Unit

Advisory: Familiarity with general and computing and the Internet. Not open to students with credit in CAST 50.

Two hours lecture-laboratory, one hour terminal time.

May be taken three times for credit. Pass/No Pass.

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.

Not repeatable.

Designed to prepare students to apply to the Radiologic Technology Program.

CHEMISTRY

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/divisions/psme/

CHEM 1A GENERAL CHEMISTRY 5 Units

Prerequisite: Satisfactory score (19) on the chemistry placement test or CHEM 25. Satisfactory score on the mathematics placement test or MATH 104 or MATH 105.

Advisory: ENGL 100 or ESL 25 recommended.

Three hours lecture, two hours lecture within laboratory, four hours laboratory.

Fundamental chemical principles with emphasis on stoichiometry, chemical reaction types, gases, kinetic molecular theory, thermochemistry, atomic structure, chemical bonding, and physical properties. Laboratory parallels lecture topics and also includes chemical nomenclature, basic chemical equations, stoichiometry, unknown analysis, and fundamentals of oxidation and reduction. [CAN CHEM 1; CHEM 1A & 1B = CAN CHEM 2; CHEM 1A & 1B & 1C = CAN CHEM SEQ A]

CHEM 1B GENERAL CHEMISTRY 5 Units

Prerequisite: CHEM 1A.

Three hours lecture, two hours lecture within laboratory, four hours laboratory.

Introduction to molecular geometry, molecular polarity, phase equilibria, solution chemistry and colligative properties, chemical kinetics, classical thermodynamics, equilibria, behavior of acids and bases. Laboratory parallels lecture topics and includes acid-base pH analysis. [CAN CHEM 3; CHEM 1A & 1B = CAN CHEM 2; CHEM 1A & 1B & 1C = CAN CHEM SEQ A; CHEM 1B & 1C = CAN CHEM 4]

CHEM 1C GENERAL CHEMISTRY & QUALITATIVE ANALYSIS 5 Units

Prerequisite: CHEM 1B.

Three hours lecture, two hours lecture within 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 5; CHEM 1B & 1C = CAN CHEM 4; CHEM 1A & 1B & 1C = CAN CHEM SEQ A]

CHEM 8A INTRODUCTION TO ORGANIC CHEMISTRY 5 Units

Prerequisite: CHEM 1B.

Four hours lecture, three hours laboratory.

A survey of the properties and structures of organic compounds. Not for chemistry majors.

CHEM 8B INTRODUCTION TO ORGANIC CHEMISTRY 5 Units

Prerequisite: CHEM 8A.

Four hours lecture, three hours laboratory.

A continuation of CHEM 8A.

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 computer 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	5 Units	CHEM 190	DIRECTED STUDY	.5 Unit
Prerequisite: CHEM 1C			CHEM 190X		1 Unit
Three hours lecture, two hours lecture within laboratory, four hours laboratory.			CHEM 190Y		1.5 Units
The chemistry of the compounds of carbon including biochemicals. Emphasis on principles involving structure, methods of synthesis, molecular characterization, reactivity and physical properties. For biological science, chemistry, chemical engineering, preprofessional students in dentistry, medicine, pharmacy, veterinary medicine and other interested students who have mastered the prerequisites.			CHEM 190Z		2 Units
Advisory: Pass/No Pass.			For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.		
May be taken six times for credit.			For students who desire or require additional help in attaining comprehension and competency in learning skills.		
CHEM 12B	ORGANIC CHEMISTRY	5 Units	CHILD DEVELOPMENT		
Prerequisite: CHEM 12A			Business & Social Sciences Division		
Three hours lecture, two hours lecture within laboratory, four hours laboratory.			(650) 949-7322 www.foothill.edu/bss/		
A continuation of CHEM 12A with emphasis on advanced topics in organic reactions and syntheses, conjugated systems, spectroscopy and carbonyl compounds.			CHLD 50	SCHOOL-AGE CHILD (5-12): BEHAVIOR & DEVELOPMENT	3 Units
CHEM 12C	ORGANIC CHEMISTRY	5 Units	Three hours lecture.		
Prerequisite: CHEM 12B			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).		
Three hours lecture, two hours lecture within laboratory, four hours laboratory.			CHLD 50A	INFANT/TODDLER DEVELOPMENT	3 Units
A continuation of CHEM 12B with emphasis on advanced topics in organic reactions and syntheses, physical methods of structure determination, bio-organic chemistry, and an introduction to biochemistry.			Three hours lecture.		
CHEM 25	FUNDAMENTALS OF CHEMISTRY	5 Units	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.		
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.			CHLD 50B	PRESCHOOL YEARS: 3 to 6	3 Units
Advisory: Concurrent enrollment in ESL 25 or ENGL 100 level is recommended.			Three hours lecture.		
Four hours lecture, one hour lecture within laboratory, two hours laboratory.			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.		
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.			CHLD 53NP	ATYPICAL INFANT DEVELOPMENT	3 Units
CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY	5 Units	Three hour lecture.		
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.			Discussion about the early development of disabled infants and children within the context of the larger community. This will include laws and service provision, education, understanding various disabilities, planning and implementing classroom curriculum, and modifying and providing appropriate classroom environments.		
Four hours lecture, one hour lecture within laboratory, two hours laboratory.			CHLD 55	CHILD GROWTH & DEVELOPMENT	4 Units
The physical world as seen by a chemist; using chemical fundamentals to illustrate the interrelationship between chemistry and the physical world. [CAN CHEM 6; CHEM 30A & B = CAN CHEM SEQ B]			Three hours lecture, three hours laboratory.		
CHEM 30B	SURVEY OF ORGANIC & BIOCHEMISTRY	5 Units	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]		
Prerequisite: CHEM 30A.			CHLD 56	OBSERVATION TECHNIQUES	3 Units
Four hours lecture, one hour lecture within laboratory, two hours laboratory.			Advisory: CHLD 50 or 50A or 50B, or PSYC 14 recommended.		
The physical world as seen by a chemist; using chemical fundamentals to illustrate the interrelationship between chemistry and the physical world. [CAN CHEM 8; CHEM 30A & B = CAN CHEM SEQ B]			Two hours lecture, three hours laboratory.		
CHEM 34	HONORS INSTITUTE SEMINAR IN CHEMISTRY	1 Unit	Observational techniques, analysis, and use of observational data for purposes of understanding children's developmental needs and appropriate curriculum development.		
Prerequisite: Membership in the Honors Institute.			CHLD 56N	INTRODUCTION TO CHILD DEVELOPMENT	4 Units
One hour lecture.			Four hours lecture.		
A seminar in directed readings, discussions and projects in chemistry. Specific topics to be determined by the instructor.			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.		
CHEM 36	SPECIAL PROJECTS IN CHEMISTRY	1 Unit			
CHEM 36X		2 Units			
CHEM 36Y		3 Units			
Prerequisite: Four quarters of college-level chemistry.					
Three hours laboratory for each unit of credit.					
May be taken for six units of credit.					
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.					

CHLD 59	WORKING WITH SCHOOL-AGE CHILDREN PRINCIPLES & PRACTICUM	3 Units	CHLD 74	SCIENCE & NATURE	1 Unit			
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	CHLD 79	CARING FOR INFANTS & TODDLERS IN GROUPS	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 tactile 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	CHLD 82	PLANNING CREATIVE DRAMATICS	1 Unit			
Advisory: Pass/No Pass. One hour lecture. May be taken six times for credit. 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	CHLD 85	LITERACY & LITERATURE IN PRESCHOOL EDUCATION	3 Units			
CHLD 68X		2 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 68Y		3 Units	CHLD 88	CHILD, FAMILY & COMMUNITY	4 Units			
CHLD 68Z		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.					
One hour lecture for each unit of credit. May be taken six times for credit. Topical introductory projects in any Early Child Development academic discipline of program segment area. Specific course and/or special projects vary from quarter to quarter depending upon selected student, population, methodology and faculty member.								
CHLD 71	PLANNING CREATIVE ART ACTIVITIES FOR CHILDREN	1 Unit	CHLD 88B	POSITIVE BEHAVIOR MANAGEMENT	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 71S	PLANNING CREATIVE ART ACTIVITIES FOR CHILDREN	.5 Unit	One hour lecture. Survey of child development theories which provide models of behavior management of pre-school children. Emphasis on selection of appropriate strategy to meet needs of individual child.					
One hour lecture-laboratory. An introduction to a variety of creative art activities for the preschool child. The tactile arts will include, but will not be limited to, paint, clay, chalk, playdough, collage and crayons.								
CHLD 72	LANGUAGE DEVELOPMENT	3 Units	CHLD 89	CURRICULUM FOR THE PRESCHOOL CLASSROOM	3 Units			
Three hours lecture. Introduction to early 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	CREATIVE MUSIC & DANCE FOR CHILDREN	2 Units	Advisory: CHLD 50B recommended. 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.					
One hour lecture, three hours laboratory. Music and movement activities and experiences. Elements of presentation and basic concepts of teaching music and movement to children.								
CHLD 90B	ADMINISTRATION & SUPERVISION: DESIGNING & STARTING CHILD CARE FACILITIES	4 Units	CHLD 90C	ADMINISTRATION & SUPERVISION: PROGRAM OPERATION	4 Units			
Advisory: Completion of nine units of child development recommended. 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.								
Advisory: Completion of nine units of child development recommended. 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	CHIN 6	INTERMEDIATE CHINESE	5 Units
	Advisory: Completion of nine units of child development courses recommended. 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. Fulfils requirement of Child Development Permit Matrix and Mentor Teacher course.		Prerequisite: CHIN 5. Five hours lecture, one hour laboratory. Continuation of CHIN 5. Further development of conversation, reading, and writing skills. Continued practice of four-tone system. Emphasis on communicative competency and vocabulary building. Limited amount of composition of short essays and stories. Study of idiomatic expressions in Chinese. Classical Chinese literature. Language laboratory practice. [CHIN 4 & 5 & 6 = CAN CHIN SEQ B]		

CHLD 190	DIRECTED STUDY	.5 Unit
CHLD 190X		1 Unit
CHLD 190Y		1.5 Units
CHLD 190Z		2 Units

Advisory: Pass/No Pass. For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture and three and one-half hours is laboratory. May be taken six times for credit. 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. [CHIN 1 & 2 & 3 = CAN CHIN SEQ A]		

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 Chinese 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. [CHIN 1 & 2 & 3 = CAN CHIN SEQ A]		

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 Chinese 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. [CHIN 1 & 2 & 3 = CAN CHIN SEQ A]		

CHIN 4	INTERMEDIATE CHINESE	5 Units
Prerequisite: CHIN 3 or three years of high school Chinese. Five hours lecture, one hour laboratory. Continuation of CHIN 3. Review of grammar and grammatical structures presented at the elementary level. Intensive oral and written drills in the use of the four-tone system of Chinese pronunciation and idiomatic constructions. Composition of short essays and stories. Presentation and discussion of Chinese culture. Conversation and language laboratory practice. [CHIN 4 & 5 & 6 = CAN CHIN SEQ B]		

CHIN 5	INTERMEDIATE CHINESE	5 Units
Prerequisite: CHIN 4 or four years of high school Chinese. Five hours lecture, one hour laboratory. Continuation of CHIN 4. Introduction to reading Chinese literature. Continued intensive drill of the four-tone system. Further development of grammatical structures. Continuation of communicative competency and vocabulary building. Limited amount of composition of short essays and stories. Presentation and discussion of Chinese culture. Language laboratory practice. [CHIN 4 & 5 & 6 = CAN CHIN SEQ B]		

CHIN 6	INTERMEDIATE CHINESE	5 Units
Prerequisite: CHIN 5. Five hours lecture, one hour laboratory. Continuation of CHIN 5. Further development of conversation, reading, and writing skills. Continued practice of four-tone system. Emphasis on communicative competency and vocabulary building. Limited amount of composition of short essays and stories. Study of idiomatic expressions in Chinese. Classical Chinese literature. Language laboratory practice. [CHIN 4 & 5 & 6 = CAN CHIN SEQ B]		

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	INTERMEDIATE 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/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.		

CHIN 14B	INTERMEDIATE 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 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.		

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	CIS 12A	FUNDAMENTALS OF VISUAL BASIC .NET PROGRAMMING	5 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 34	HONORS INSTITUTE SEMINAR IN CHINESE	1 Unit	CIS 12D	ADVANCED VISUAL BASIC .NET: FOR WINDOWS-BASED APPLICATIONS	5 Units		
Prerequisite: Membership in the Honors Institute.							
One hour lecture.							
A seminar in directed readings, discussions, and projects in Chinese. Specific topics to be determined by the instructor.							
CHIN 36	SPECIAL PROJECTS IN CHINESE	1 Unit	CIS 12W	DEVELOPING WEB APPLICATIONS WITH VB.NET	5 Units		
CHIN 36Y		3 Units	Advisory: CIS 12A or equivalent.				
CHIN 36X		2 Units	Four hours lecture, four hours computer terminal time.				
CHIN 36Z		4 Units	Windows based program development using Microsoft's Visual Basic .NET programming language. Includes use of the Visual Studio.NET IDE and the .NET Framework, database programming with ADO.NET, programming handheld devices, MDI, drawing and the GDI, security, deployment. Preparation course for the Microsoft MCSD/MCAD Exam #70-306.				
Prerequisite: CHIN 6.							
One hour lecture for each unit of credit.							
May be taken six times for credit.							
A study oriented toward spoken or written practice or both in Chinese. 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.							
CHIN 190	DIRECTED STUDY LECTURE	.5 Unit	CIS 15A	COMPUTER SCIENCE I: C++	5 Units		
CHIN 190X		1 Unit	Advisory: MATH 101 recommended.				
CHIN 190Y		1.5 Units	Four hours lecture, four hours terminal time.				
CHIN 190Z		2 Units	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]				
Advisory: Pass/No Pass.							
Half hour lecture of individualized instruction for each half unit.							
May be repeated six times for credit.							
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	CIS 15B	COMPUTER SCIENCE II: C++	5 Units		
Four hours lecture, four hours terminal time.							
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	4 Units	CIS 15C	COMPUTER SCIENCE III: DATA STRUCTURES & ALGORITHMS	5 Units		
Advisory: MATH 101, and ENGL 1A or ESL 26 recommended.							
Two hours lecture, two hours lecture in laboratory, two hours terminal time.							
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]							
Advisory: CIS 15P or CIS 15B							
Four hours lecture, four hours terminal time.							
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 disk files in the C++ programming language. Introduction to basic data structures. Builds on the concepts presented in CIS 15A.							
Advisory: CIS 15B or equivalent.							
Four hours lecture, four hours terminal time.							
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.							
CIS 15D	DESIGNING WITH C++ CLASSES	5 Units	Advisory: CIS 15P or CIS 15B				
Four hours lecture, four hours terminal time.							
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	CIS 25A	PROGRAMMING IN C	5 Units
Advisory: CIS 27B, CIS 25A or equivalent C or JAVA programming class recommended.			Advisory: Knowledge of a high-level programming language recommended.		
Four hours lecture, four hours terminal time.			Four hours lecture, four hours terminal time.		
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.			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. [CAN CSCI 16]		
CIS 18	DISCRETE MATHEMATICS	5 Units	CIS 25B	ADVANCED PROGRAMMING IN C	5 Units
Prerequisite: MATH 49.			Advisory: CIS 25A or equivalent recommended.		
Advisory: Not open to students with credit in MATH 22.			Four hours lecture, four hours terminal time.		
Four hours lecture, one hour laboratory.			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.		
CIS 19A	INTRODUCTION TO PROGRAMMING WITH C#	5 Units	CIS 27A	COMPUTER SCIENCE I: JAVA	5 Units
Advisory: CIS 12A or CIS 15A or CIS 27A.			Advisory: MATH 101 recommended.		
Four hours lecture, four hours terminal time.			Four hours lecture, four hours terminal time.		
Introduction to programming using the C# language. C# is a new programming language which was developed expressly for the .NET platform. C# 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.			Introduces the disciplines 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. [CAN CSCI 22]		
CIS 19D	DEVELOPING WINDOWS-BASED APPLICATIONS WITH C#	5 Units	CIS 27B	COMPUTER SCIENCE II: JAVA	5 Units
Advisory: CIS 19A.			Four hours lecture, four hours terminal time.		
Four hours lecture, four hours terminal time.			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 applets, and disk files. Introduction to basic data structures. Builds on the concepts presented in CIS 27A.		
Developing Windows Based Applications using C#. Internally, Microsoft has shifted the development of all new projects to the use of C#, relegating C and C++ to 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 27C	COMPUTER SCIENCE III: DATA STRUCTURES & ALGORITHMS IN JAVA	5 Units
Advisory: CIS 19A or CIS 12A or CIS 15A or CIS 27A.			Advisory: CIS 27B recommended.		
Four hours lecture, four hours terminal time.			Four hours lecture, four hours terminal time.		
Advanced programming using the C# language. C# is a new programming language introduced by Microsoft as an intended replacement for C++ and as 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.			Not repeatable.		
CIS 19P	ADVANCED PROGRAMMING WITH C#	5 Units	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.		
Advisory: CIS 19A or CIS 12A or CIS 15A or CIS 27A.			CIS 27D	JAVA ADVANCED FEATURES	5 Units
Four hours lecture, four hours terminal time.			Advisory: CIS 27B or CIS 27P recommended.		
Advanced programming using the C# language. C# is a new programming language introduced by Microsoft as an intended replacement for C++ and as 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.			Four hours lecture, four hours terminal time.		
CIS 19W	DEVELOPING WEB APPLICATIONS	5 Units	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.		
Advisory: CIS 19A.			CIS 27P	JAVA FOR PROGRAMMERS	5 Units
Four hours lecture, four hours terminal time.			Advisory: Prior C/C++ programming experience recommended.		
Developing Web Applications using C# language. C# is the first programming language from Microsoft designed from the ground up to support 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, which 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.			Four hours lecture, four hours terminal time.		
			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.		

CIS 30	SELECTED TOPICS IN PROGRAMMING TECHNOLOGY	5 Units	CIS 52E	ORACLE: DATABASE ADMINISTRATION I	5 Units
	Advisory: CIS 12A, 15A, or 25A, or equivalent, recommended.		Advisory: CIS 52B2 or equivalent.		
	Four hours lecture, four hours terminal time.		Four hours lecture, four hours terminal time.		
	May be taken three times for credit.		The basics of Oracle 10g database administration. Overview of Oracle architecture and how each component work; 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.		
	Introduction to various programming languages and software development tools.				
CIS 50A	USING THE COMPUTER: PC (WINDOWS)	4 Units	CIS 52F	ORACLE DATABASE ADMINISTRATION II	5 Units
	Two hours lecture, two hours lecture within laboratory, two hours terminal time.		Advisory: CIS 52E or equivalent.		
	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.		Four hours lecture, four hours terminal time.		
			Not repeatable.		
			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 51A	PREPARATION FOR TECHNOLOGY CAREERS	2 Units	CIS 52J	ORACLE: PROGRAM WITH PL/SQL	5 Units
	One and one-half hours lecture, one and one-half hours lecture-laboratory, two hours terminal time.		Advisory: CIS 52B2 or equivalent.		
	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.		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 51C	WORKPLACE PRINCIPLES & PRACTICES	3 Units	CIS 52K	ORACLE FORMS DEVELOPER: BUILD INTERNET APPLICATIONS	5 Units
	Advisory: Grade of C or better in ENGL 110 or ESL 25, or eligibility for ENGL 1A or ESL 26 highly recommended.		Advisory: CIS 52J		
	One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		Four hours lecture, four hours terminal time.		
	Concepts, principles and practices in the information technology workplace. Emphasis on how 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.		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 52A	INTRODUCTION TO DATA MANAGEMENT SYSTEMS	5 Units	CIS 52L	ORACLE NEW FEATURES FOR DATABASE ADMINISTRATORS	5 Units
	Advisory: CIS 50A or 60 recommended.		Advisory: CIS 52F.		
	Four hours lecture, four hours terminal time.		Four hours lecture, four hours terminal time.		
	Introduction to database systems and data management. Topics include database definitions and concepts, relational database, query language, data storage, transaction management, database systems applications, database construction, and hands-on experience with a database management system.		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 52B2	INTRODUCTION TO ORACLE SQL	5 Units	CIS 54C	SQL SERVER DATABASE DESIGN	5 Units
	Four hours lecture, four hours terminal time.		Advisory: CIS 52A, CNET 54A or equivalent		
	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.		Two hours lecture, two hours lecture in the lab four hours terminal time.		
CIS 52C	DATABASE MODELING & RELATIONAL DATABASE DESIGN	5 Units	Plan, design and implement database systems using the latest version of Microsoft SQL-Server. The course includes training in the creation and maintenance of database objects, implementation of data integrity, Transact-SQL to query a SQL Server database. Database security and optimization techniques are covered. The course is designed to prepare students for Microsoft MCAD/MCSE/MCSD Exam 70-229		
	Four hours lecture, and four hours terminal time				
	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 60	INTRODUCTION TO BUSINESS INFORMATION SYSTEMS	5 Units	CIS 62A	DATA WAREHOUSING & DATA MINING	5 Units
	Advisory: MATH 101 or equivalent and eligibility for ENGL 1A or ESL 26 highly recommended.		Advisory: CIS 52C or equivalent.		
	Four hours lecture, four hours terminal time.		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]		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 techniques visual data mining, tools integration and metadata for end user reporting and utilization.		
CIS 61A	INFORMATICS	5 Units	CIS 63A	SYSTEMS ANALYSIS, DESIGN & HUMAN INTERFACE	5 Units
	Advisory: CIS 60 or equivalent. Concurrent enrollment in CIS 61B		Advisory: CIS 60 or equivalent. Familiarity with object-oriented computer applications. PowerPoint®, Flash® or equivalent presentation software recommended.		
	Preparation for Careers in Informatics recommended.		Four hours lecture, four hours terminal time.		
	Four hours lecture, four hours terminal time		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 61B	PREPARATION FOR CAREERS IN INFORMATICS	2 Units	CIS 63A1	SYSTEMS ANALYSIS & DESIGN	5 Units
	Advisory: Not available to students with credit in CIS 51A		Prerequisite: CIS 60 or equivalent required.		
	Two hours lecture, one hour terminal time.		Advisory: Database or application programming, PowerPoint® or Visio® or equivalent presentation/diagramming software recommended		
	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.		Four hours lecture, five hours terminal time.		
CIS 61C	INFORMATICS TOOLS & METHODS	5 Units	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.		
	Advisory: CIS 61A or equivalent, MATH 10, and familiarity with SQL.		CIS 63B	DESIGN & ANALYSIS FOR INFORMATICS RESEARCH	5 Units
	Two hours lecture, two hours lecture-in-laboratory, and four hours terminal time.		Advisories: MATH 10 and CIS 63A or equivalent.		
	May be repeated three times for credit.		Fours lecture, fours 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.		May be taken three times for credit.		
CIS 61X	INFORMATICS PROJECTS	1 Unit	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 61Y		2 Units			
CIS 61Z		3 Units			
Advisory: CIS 61A, 63B or equivalent			CIS 64A	COMPUTERIZED ACCOUNTING PRACTICE	1 Unit
One half hour lecture in lab, two hours terminal time for each unit of credit.			Prerequisites: ACTG 1A or equivalent experience.		
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.			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		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	CIS 68J	PERL PROGRAMMING FOR BIOINFORMATICS	5 Units					
Advisory: CIS 50A or CIS 50B or equivalent.										
Three hours lecture, one hour lecture in lab, and four hours terminal time.										
An introduction to the Linux and UNIX operating systems, primarily focused on command line usage. Covers the kernel, filesystems, shells and user utilities. Also introduces students to the fundamentals of shell programming, processes, communications, and basic security.										
CIS 68B1	LINUX & UNIX SHELL PROGRAMMING	5 Units	CIS 78	SOFTWARE ENGINEERING	5 Units					
Advisory: CIS 68A or equivalent.										
Two hours lecture, two hours lecture in laboratory; four hours terminal time.										
Shell script programming using the Bourne-Again SHell(bash) programming language and Unix/Linux utilities to create practical shell scripts.										
CIS 68B2	ADVANCED UNIX SCRIPTING	5 Units	CIS 96	SPECIAL PROJECTS	1 Unit					
Advisory: CIS 68A and 68 B1, or equivalent.										
Four hours lecture, four hours terminal time.										
Advanced scripting in the UNIX environment to create new practical utilities and scripts using the Korn shell, awk (and variants), and PERL.										
CIS 68C1	LINUX & UNIX SYSTEM ADMINISTRATION	5 Units	CIS 96X		2 Units					
Advisory: CIS 68A or equivalent.										
Two hours lecture, two hours lecture-in-laboratory; four hours terminal time.										
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	CIS 96Y		3 Units					
Advisory: CIS 68A, 68B1, and 68C1 or equivalent experience.										
Two hours lecture, two hours lecture-in-laboratory; four hours terminal time.										
Advanced networking administration of the UNIX operating system. Hands on experience with network setup, configuration and maintenance.										
CIS 68C3	UNIX NAME SERVICE ADMINISTRATION	3 Units	Three hours terminal time per unit.							
Prerequisite: CIS 68C2 or equivalent experience.			May be taken three times for credit.							
Two hours lecture, two hours lecture-laboratory, two hours terminal time.			Individual research and/or projects in computer information systems, computer science or data communication.							
Administration of a UNIX system operating in remote mode using a name service. Hands-on experience with configuration and maintenance.										
CIS 68E	PROGRAMMING IN PERL	5 Units	CIS 102	COMPUTER KEYBOARDING SKILLS	.5 Unit					
Advisory: CIS 25A or CIS 15A or CIS 27A, and CIS 68A recommended.										
Four hours lecture, four hours terminal time.										
Programming in the UNIX environment, PERL, to create utility programs.										
CIS 68H	BIOPERL PROGRAMMING FOR BIOINFORMATICS	5 Units	CIS 111	LEARNING-COLLABORATIVE TRAINING	1 Unit					
Advisory: CIS 68E or COIN 68 or equivalent.										
Four hours lecture, four hours terminal time.										
Not repeatable.										
Course will introduce BioPERL modules in the analysis of bioinformatics data, including downloading, installing and configuring BioPERL in a Windows environment. Using BioPERL modules, 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. Will show how to use BioPERL modules to convert between and from various file formats, including FASTA, SWISSPROT, and EMBL. 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. Intended for bioinformatics students with a strong foundation in PERL, which is provided by the CIS 68J course.										
CIS 190	DIRECTED STUDY		.5 Unit							
CIS 190X			1 Unit							
CIS 190Y			1.5 Units							
CIS 190Z			2 Units							
Corequisite: Concurrent enrollment in a computer science class or enrollment in any class requiring computer usage.										
Advisory: Pass/No Pass.										
For each unit of credit there is a total of four hours of instruction of which one-half-hour is lecture.										
May be taken six times for credit.										
Computer projects for students who desire or require additional help in attaining comprehension and competency in computer skills.										

CIS 191	WRITING/COMMUNICATION	.5 Unit
CIS 191X	ACROSS THE CURRICULUM	1 Unit
CIS 191Y	FOR COMPUTERS, TECHNOLOGY	1.5 Units
CIS 191Z	& INFORMATION SYSTEMS	2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half-hour is lecture.

May be taken six times for credit.

For students who desire additional help in attaining improved writing and speaking abilities in specific computer, technology and information systems disciplines.

COMPUTER NETWORKING & ELECTRONICS

Computers, Technology & Information Systems Division (650) 949-7236
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CNET 50	INTRODUCTION TO COMPUTER NETWORKING	4 Units
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Four hours of lecture, two hours of terminal time.

This is a survey course designed to provide interested students with an overview of current networking technologies. For students who are pursuing a career in networking, CNET 50 is a requirement for all CNET certificates and degrees. Course content includes data representation, protocols, transmission media, analog and digital transmission, Local, Wide, Wireless, Cellular, and Satellite networks, network connecting devices, TCP/IP, and the Internet.

CNET 51A	MICROSOFT WINDOWS 2000 PROFESSIONAL	4 Units
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Advisory: CNET 50 or CNET 52L recommended.

Four hours lecture, two hours terminal time.

Provides students with the knowledge and skills necessary to install, configure, customize and troubleshoot Microsoft Windows 2000 Professional in workgroup, domain, and multiple domain network environments. Provides the information necessary to pass the Microsoft Certification Exam 70-210: Installing, Configuring & Administering Microsoft 2000 Professional.

CNET 53	PRINCIPLES OF DATA COMMUNICATION PROTOCOLS	4 Units
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Four hours lecture.

Introduction to the principles of Data Communication Protocols: what they are, where they are found and what they do. Topics discussed will include LAN and WAN protocols. The OSI Interoperability Model will be examined in depth and compared to other networking architectures.

CNET 54	SYSTEMS NETWORK ARCHITECTURE	5 Units
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Prerequisites: CISCO CCNA Certification.

Four hours lecture, two hours terminal time.

Not repeatable.

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 Cisco Remote Access Networks (BCRAN). Instruction includes ISDN, DDR, ODR, dialup networking, Frame Relay, and AAA. Students will learn how to build a remote access network to interconnect central sites to branch offices and home office/telecomputers. Students will also learn how to control access to the central site, as well as maximize bandwidth utilization over the remote links.

CNET 54A	NETWORKING FUNDAMENTALS & THE TCP/IP PROTOCOL SUITE (CCNA 1)	5 Units
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Advisory: CNET 50

Four hours lecture, one-half hour lecture in the lab, three hours lab and three hours terminal time.

May be repeated three times for credit.

This course is designed to provide students with classroom and laboratory experience in current and emerging networking technologies. Instruction includes networking, network terminology, cabling, cabling tools, network protocols, network standards, the OSI model, LANs, WANs, routers, network topology, IP addressing, TCP, and network standards. This is the first course in the Cisco Networking Academy Program. This program will prepare students for the Cisco Certified Networking Associate (CCNA) exam.

CNET 54B	ROUTING & ROUTER CONFIGURATION (CCNA 2)	4 Units
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Advisory: CNET 54A or equivalent.

Four hours lecture, one-half hour lecture in the lab, three hours lab, two hours terminal time.

May be repeated three times for credit.

This course is an introduction to router and routing concepts and terminology including distance vector and link state routing, RIPV1 and RIPV2, IGRP and IGRP metric calculations, routing loop issues, routing theory, router IOS, and basic router configuration, scenario analysis and troubleshooting, and additional topics such as classless routing, discontiguous subnets, and Access Control Lists. The course also reviews TCP/IP basics, and IP addressing. This is the second course in the Cisco Networking Academy Program; it 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 Associate (CCNA) exam.

CNET 54C	SWITCHING BASICS & INTERMEDIATE ROUTING (CCNA 3)	5 Units
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Advisory: CNET 54B or equivalent.

Four hours lecture, one-half hour lecture in the lab, three hours lab, two hours terminal time.

May be repeated three times for credit.

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
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Advisory: CNET 54C or CCNA 3 or equivalent.

Four hours lecture, one-half hour lecture in the lab, three hours lab, two hours terminal time.

May be repeated three times for credit.

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	ADVANCED ROUTING (CCNP 1)	5 Units
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Advisory: CNET 54C or CCNA Certification or equivalent.

Four hours lecture, one-half hour lecture in the lab, three hours lab and two hours terminal time.

May be repeated three times for credit.

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, and advanced access lists.

CNET 54H REMOTE ACCESS (CCNP 2)	5 Units	CNET 56B INTRUSION DETECTION, AWARENESS, ANALYSIS & PREVENTION	4 Units
Advisory: CNET 54D or CCNA Certification or equivalent		Advisory: CNET54A, 56A or equivalent experience.	
Four hours lecture, one-half hour lecture in the lab, three hours lab and two hours terminal time.		Four hours lecture and two hours terminal time.	
May be repeated three times for credit.		Students will apply network security concepts to the management of enterprise network threats, outages and incident response. Students 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 54I MULTI-LAYER SWITCHING (CCNP 3)	5 Units	CNET 56E WINDOWS XP/2000/2003 SYSTEM SECURITY	5 Units
Advisory: CNET 54C or CCNA Certification or equivalent		Advisory: CNET 54A, 56A, 60A, 60B, 60C, and 60D or equivalent experience.	
Four hours lecture, one-half hour lecture in the lab, three hours lab two hours terminal time.		Two hours lecture, two hours lecture-in-laboratory; four hours terminal time. Installing, configuring and maintaining Windows systems from a security standpoint. Understanding systems attacks. Implementing and evaluating Windows security tools in the network.	
May be repeated three times for credit.			
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 Cisco Multilayer Switching Networks. Instruction includes advanced VLAN configuration, InterVLAN routing, Catalyst switch architecture.			
CNET 54J NETWORK TROUBLESHOOTING (CCNP)	5 Units	CNET 56F LINUX & UNIX SYSTEM SECURITY	5 Units
Advisory: CNET 54G, 54H, and 54I or equivalent.		Advisory: CNET 56A, CIS 68A, 68B1, 68C1 and 68C2, or equivalent experience.	
Four hours lecture, one-half hour lecture in the lab, three hours lab and two hours terminal time.		Three hours lecture, two hours lecture-in-laboratory, four hours terminal time. Installing, configuring and maintaining Linux systems from a security standpoint. Understanding systems attacks. Implementing and evaluating Linux security tools in the network.	
May be repeated three times for credit.			
This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: Cisco Internetwork Troubleshooting. Instruction includes troubleshooting methodology, network documentation and debugging.			
CNET 54M FUNDAMENTALS OF CISCO NETWORK SECURITY	5 Units	CNET 59 TRANSMISSION CONTROL PROTOCOL/ INTERNET PROTOCOL (TCP/IP)	4 Units
Advisory: CNET 54D or the Cisco CCNA Certification		Advisory: CNET 52L recommended.	
Two hours lecture, two hours lecture-in-the-lab, and two hours of terminal time.		Four hours lecture-in-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.		Introduction to the knowledge and skills required to set up, configure, use and support Transmission Control Protocol/Internet Protocol (TCP/IP).	
CNET 54N FUNDAMENTALS OF CISCO WIRELESS LANS	5 Units	CNET 60A MICROSOFT WINDOWS 2003 SERVER	4 Units
Advisory: CNET 54B or a basic knowledge of networking and Cisco Router configuration.		Advisory: CNET 51A or 51H	
Two hours lecture, two hours lecture in the lab, and two hours of terminal time.		Two hours lecture, two hours in laboratory, two hours of terminal time.	
This course teaches students to plan, design, develop, 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.		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 56A INTRODUCTION TO NETWORK SECURITY	4 Units	CNET 60B MICROSOFT WINDOWS 2003 NETWORK SERVICES	4 Units
Advisory: CNET 50 or equivalent		Advisory: CNET 51A or 51H and CNET 60A	
Four hours lecture, two hours terminal time.		Two hours lecture, two hours lecture in laboratory, two hours of terminal time.	
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 CompTIA Security+ Certification Exam.		This course provides students with the knowledge and skills necessary to install, configure, administer, and support a Microsoft Windows 2003 network infrastructure in domain and multiple domain network environments. The course provides the information necessary to pass the Microsoft Certification Exam 70-291, Implementing, Managing, and Maintaining a Microsoft Windows 2003 Network Infrastructure.	
CNET 60C MICROSOFT WINDOWS 2003 NETWORK INFRASTRUCTURE	4 Units		
Advisory: CNET 60B		Advisory: CNET 60B	
Two hours lecture, two hours lecture in laboratory, two hours of terminal time.		Two hours lecture, two hours lecture in laboratory, two hours of terminal time.	
		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 60D	MICROSOFT WINDOWS 2003 ACTIVE DIRECTORY	4 Units
Advisory: CNET 60C	Two hours lecture, two lecture in laboratory, two hours of terminal time.	
	This course provides students with the knowledge and skills necessary to successfully plan, implement, and troubleshoot a Microsoft Server 2003 Active Directory 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 60E	MICROSOFT WINDOWS 2003 NETWORK DESIGN	4 Units
Advisory: CNET 60D	Two hours lecture, two lecture in laboratory, two hours of terminal time.	
	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 60F	MICROSOFT WINDOWS 2003 EXCHANGE SERVER	4 Units
Advisory: CNET 60E.	Two hours lecture, two lecture in laboratory, two hours of terminal time.	
	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 60G	SUPPORTING USERS & TROUBLESHOOTING AN MS WINDOWS XP OPERATING SYSTEM	4 Units
Advisory: CNET 51H or equivalent.	Four hours lecture in the laboratory, three hours terminal time.	
	This course is to provide individuals who are new to Microsoft Windows XP with the knowledge and skills necessary to troubleshoot basic problems end users will face while running Microsoft Windows XP Professional in an Active Directory network environment, or Windows XP Home edition in a workgroup environment. This is an introductory course designed to provide an overview of operating system concepts and how to troubleshoot Windows XP.	
CNET 60H	SUPPORTING USERS & TROUBLESHOOTING DESKTOP APPLICATIONS ON AN MS WINDOWS XP OPERATING SYSTEM	4 Units
Advisory: CNET 51H or equivalent.	Four hours lecture in the laboratory, three hours terminal time.	
	This course provides individuals who are new to Microsoft Windows XP with the knowledge and skills necessary to troubleshoot basic problems end users will face while running Microsoft Windows XP Professional in an Active Directory network environment, or Windows XP Home edition in a workgroup environment. This is an introductory course designed to provide an overview of operating system concepts and how to troubleshoot Windows XP.	
CNET 61	WIDE AREA NETWORKING	4 Units
Advisory: CNET 50 recommended.		
Four hours lecture.		
	Introduction to the topic of WANs (Wide Area Networks). Main focus on Public Data Network. Includes the PSTN/T1 Leased Line technology, the PSN X.25 permanent and switched virtual circuit technology, Frame Relay, MANs (metropolitan area networks), and ATM (asynchronous transfer mode) connectivity.	
CNET 65A	WIRELESS NETWORK ADMINISTRATION	4 Units
Advisory: CNET 50.	Two hours lecture, two hours lecture in the laboratory and two hours of open laboratory.	
	This course provides students with knowledge & skills necessary to install, manage, and support wireless networks. Content includes wireless technology standards, governing bodies, hardware, radio frequency spectrum, antennas, security, site survey, & troubleshooting.	
CNET 65B	WIRELESS NETWORK SECURITY	4 Units
Advisory: CNET 50 and CNET 70A recommended.	Two hours lecture, two hours lecture in the laboratory and two hours of open laboratory.	
	This course provides students with the knowledge and skills necessary to detect intrusion within a wireless network, provide a security policy template to prevent future attacks, and be able to implement a variety of hardware and software security solutions.	
CNET 65C	WIRELESS NETWORK ANALYSIS	4 Units
Advisory: CNET 50 and CNET 65A.	Two hours lecture, two hours lecture in laboratory, two hours of open laboratory.	
	This course provides students with the knowledge and skills necessary to analyze and troubleshoot wireless LAN systems. Course content includes installation and configuration of a Cisco System Wireless LAN, IEEE 802.11 frame formats, system architecture, protocol analyzers, and performance variables.	
CNET 68	PRINCIPLES OF NETWORK ANALYSIS & DESIGN	4 Units
Advisory: CNET 50 or equivalent recommended.		
Four hours lecture.		
	Introduction to the principles of analysis and design of networks. Topics discussed will include categories of corporate computing, networking terms and attributes, an introduction to the analysis and design process, network baselining and network design case studies.	
CNET 76	ELECTRONICS FOR PC & NETWORKING TECHNOLOGY	5 Units
Advisory: Electronic mathematics recommended. (May be taken concurrently).		
Three hours lecture, two hours lecture-laboratory.		
	Introduces a wide spectrum of electronics technology with exposure to equipment commonly used in the electronic facility. Covers the fundamentals of DC and AC, solid-state discrete devices, linear and digital integrated circuits, and an introduction to microprocessors. Designed to complement a computer networking program. Practical examples of common PC electronics.	
CNET 95A	CABLE INSTALLATION & TERMINATION	2 Units
Advisory: CNET 50 recommended.		
One hour lecture, three hours laboratory.		
	Methods and materials used in the installation and termination of network wiring topologies.	
CNET 95B	FRAME SUPPORT & HARDWARE	2 Units
Advisory: CNET 50 recommended.		
Three hours lecture-laboratory, three hours terminal time.		
	Design and installation of cabling distribution; and systems frame support and hardware.	
CNET 95C	FUNDAMENTALS OF FIBER OPTICS	2 Units
Advisory: CNET 50 recommended.		
One hour lecture, one and one-half hours lecture-laboratory, two hours terminal time.		
	Concepts, principles, methods and tools underlying fiber optic link implementation.	

CNET 95D CODES, SPECIFICATIONS & SAFETY 1 Unit	CNET 115 A+ COMPUTER EXAM PREP FOR PC 5 Units
Advisory: CNET 50 recommended.	Advisory: CNET 114 or equivalent.
One-half hour lecture, one hour lecture-laboratory, one and one-half hours terminal time.	Two hours lecture, two hours lecture within lab, and one-hour terminal time. May be repeated two times.
Principles and standards of the National Electrical Code (NEC) in reference to the design and installation of telephone, data, and video cable systems; and a review of current OSHA and OSH POD safety requirements.	A final review of principles and skills taught in the pre-requisite classes, in order to prepare to take and pass the A+ certification examination, and become a certified computer technician. In-class, hands-on activities using PCs. Subject matter includes Windows 3.1, 95/98/Me/NT and 2000, DOS, PC hardware, setup and repair, basic Ethernet networking using PCs and customer relations.
CNET 95E CABLE PLANT ENGINEERING & DESIGN 2 Units	CNET 116A INTRODUCTION TO PC ELECTRONICS & THE COMMAND LINE (A+ PREP) 5 Units
Advisory: CNET 95A and 95D or equivalent recommended.	Advisory: MATH 101.
One hour lecture, one and one-half hours lecture-laboratory, two hours terminal time.	Two hours lecture, two hour lecture within laboratory, four hours terminal time.
Industry codes and standards utilized in cabling distribution systems; and preparation for the Building Industry Consulting Services (BICSI) and Registered Communications Distribution Designer (RCCD) examinations.	A comprehensive overview of electronics and of equipment commonly used to test PCs. Presents the fundamentals of DC and AC, solid-state diodes, linear and digital integrated circuits, and microprocessors. Includes hands-on lab circuit building and measuring using a digital multimeter (DMM).
CNET 95F FIBER OPTICS INSTALLATION, TESTING & TROUBLESHOOTING 2 Units	CNET 116B WINDOWS INSTALLATION, UPGRADING & TROUBLESHOOTING (A+ PREP) 5 Units
Advisory: CNET 95A and 95C or equivalent recommended.	Advisory: CNET 116A.
Three hours lecture-laboratory, three hours terminal time.	Two hours lecture, two hour lecture within laboratory, four hours terminal time.
Methods and materials used in fiber optic cable installation. Hands-on experience with cable placement, termination, splicing, acceptance testing and troubleshooting.	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 95G NETWORK TESTING & TROUBLESHOOTING 2 Units	CNET 117 CNET INTERNSHIP .5 Unit
Advisory: CNET 95A and 95C or equivalent recommended.	CNET 117X 1 Unit
One hour lecture, one hour lecture-laboratory, three hours terminal time.	CNET 117Y 1.5 Units
Methods and procedures required to test and troubleshoot systems in local- and wide-area networks.	CNET 117Z 2 Units
CNET 97A A PRACTICUM IN ENTERPRISE SECURITY 6 Units	Advisory: Pass/No Pass.
Advisory: CNET 56A, CNET 54A	For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.
Four hours lecture, six hours laboratory, three hours terminal time.	May be taken three times for credit.
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.	Actual work experience in a business, commercial or industrial facility.
CNET 99 CNET PROJECT 2 Units	CNET 118 OTI: WORK SKILLS IN A TECHNICAL SUPPORT ROLE 4 Units
One hour lecture, three hours laboratory.	Advisory: Familiarity with microcomputers, Windows 2000 Professional and Windows 2000 server set up. CAOS157 (Work Skills Communication), CIS 51A, ENGL 100 and 110, or ESL 25 or equivalent.
Electronic project construct, test, documentation and reporting contracted with an instructor.	Four hours lecture, two hours laboratory per week
	Basic theory and application of technical support including customer interaction, tools, root cause analysis and problem solving.
CNET 111 INTRODUCTION TO PERSONAL COMPUTER CONSTRUCTION & OPERATION 5 Units	CNET 119 CUSTOMER SERVICE FOR IT PROFESSIONALS 3 Units
Three hours lecture, one hour lecture within laboratory, four hours terminal time.	Advisory: MATH 101, ENGL 110 or ESL 25, CIS 50A, CNET 111, CNET 51A, or equivalent.
Not repeatable.	one and one-half hours lecture, one and one-half hours lecture/lab, three hours terminal time.
Assembly of a personal computer, including safety precautions and function of major modules. Use of DOS commands and batch file creation. Use of utility software packages.	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 114 ADVANCED PC CONSTRUCTION & TROUBLESHOOTING 5 Units	
Advisory: CNET 76 and 111.	
Two hours lecture, two hours lecture within laboratory, four hours laboratory.	
Detailed study of each component inside the personal computer. Functional study of peripheral operations. Troubleshooting techniques leading to the identification and solution of hardware or software problems. Replacement of system components or peripheral devices.	

CNET 190	DIRECTED STUDY	.5 Unit	CAST 54A	MICROSOFT VISIO	3 Units			
CNET 190X		1 Unit	Advisory: CIS 50A or equivalent is strongly recommended.					
CNET 190Y		1.5 Units	One and one-half hours lecture, one and one-half hours lecture-laboratory, and three hours terminal time.					
CNET 190Z		2 Units	May be taken three times for credit.					
Advisory: Pass/No Pass.								
For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.								
May be taken six times for credit.								
Computer projects for students who desire or require additional help in attaining comprehension and competency in learning skills.								

COMPUTERS & SOFTWARE TRAINING

Computers, Technology & Information Systems Division (650) 949-7236
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CAST 50	CAREER EXPLORATION USING THE INTERNET	1 Unit
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Advisory: Familiarity with general computing and email recommended.
 Not open to students with credit in CRLP 90. Pass/No Pass.
 Two hours lecture-laboratory, one hour terminal time.
 May be taken three times for credit.

Exploration of high-tech careers using the resources of the Internet.

CAST 52A	INTRODUCTION TO MACROMEDIA FLASH	4 Units
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Advisory: CIS 50A or equivalent, and familiarity with HTML 3.2 or higher (COIN 61) and current Internet technologies (Web browsers, common graphics formats, FTP) recommended.

Two hours lecture, two hours lecture-laboratory, three hours terminal time.
 May be taken two times for credit.

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	4 Units
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Advisory: CIS 50A or equivalent, recommended. Familiarity with HTML 3.2 or higher (COIN 61) and current Internet technologies (Web browsers, common graphics formats, FTP).

Two hours lecture, two hours lecture-laboratory, three hours terminal time.
 May be taken three times for credit.

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	4 Units
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Advisory: CAST 52A, CIS 50A or equivalent.
 Two hours lecture, two hours lecture-lab, three hours terminal time.

May be taken three times for credit.

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** | **3 Units** |

Advisory: CIS 50A or equivalent is strongly recommended.

One and one-half hours lecture, one and one-half hours lecture-laboratory, and three hours terminal time.

May be taken three times for credit.

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	3 Units
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Advisory: CIS 50A or equivalent. An understanding of basic HTML concepts and practice is expected.

One and one-half hours lecture, one and one-half hours lecture-lab, 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	3 Units
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One and one-half hours lecture, one and one-half hours lecture-laboratory, and three hours terminal time.

May be taken two times for credit.

Introduction to using and designing databases on this popular relational, cross-platform database program. Hands-on experience creating databases structures and interfaces.

CAST 58	USING XML SPY	2 Units
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Prerequisite: COIN 78.

Advisory: Familiarity with XML DTDs, schema, XPath, XSL, and XSLT

One and one half hours lecture in laboratory, and three hours terminal time.

May be taken three times for credit.

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 to use Altova's xmllspy 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 AUTOCAD	4 Units
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Advisory: Knowledge of drafting fundamentals recommended.

Three hours lecture, two hours lecture-laboratory.

For drafters, architecture students and as an extension of technical drawing. An introduction to computer graphic systems, equipment and applications using AutoCAD software. Special emphasis will be placed on the practical foundation/background to use this system and equipment.

CAST 63B	ADVANCED COMPUTER-AIDED DRAFTING USING AUTOCAD	4 Units	CAST 70G	INTRODUCTION TO MACROMEDIA DIRECTOR	4 Units
Advisory: CAST 63A or equivalent recommended.			Formerly: CAST 70B1		
Three hours lecture, two hours lecture-laboratory.			Two hours lecture, two hours lecture in laboratory, four hours terminal time.		
Instruction in the use and modification of AutoCAD with emphasis on increased productivity. Customization of AutoCAD support files. Understanding and use of paper space concepts for scaling and plotting applications. Creation of Auto Lisp programs, attributes.			May be taken three times for credit.		
CAST 70A	INTRODUCTION TO ADOBE PREMIERE	3 Units	CAST 70H	ADVANCED MACROMEDIA DIRECTOR	4 Units
Advisory: CIS 50A or GID 74 or equivalent recommended.			Formerly: CAST 70B2		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			Two hours lecture, two hours lecture in lab, four hours terminal time.		
May be taken three times for credit.			May be taken three times for credit.		
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.			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 70B	MULTIMEDIA DESIGN & AUTHORING	3 Units	CAST 71A	USING AUTHORING SOFTWARE TO CREATE INSTRUCTIONAL MATERIALS	3 Units
Advisory: CIS 50A or equivalent, recommended.			Advisory: CAST 70B or equivalent recommended.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
Introduction to the principles of interface design, conceptualization, and prototyping of multimedia projects with software tools.			May be taken three times for credit.		
CAST 70C	INTERACTIVE MULTIMEDIA PROJECT	3 Units	CAST 74G	WEB PUBLISHING TOOLS: DREAMWEAVER	3 Units
Advisory: CAST 70B, 52A or equivalent			Advisory: Familiarity with HTML 3.2 or higher (COIN 60). Familiarity with current Internet technologies (e-mail, Web browsers, common graphics formats, FTP) recommended. Not open to students with credit in COIN 74.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken three times for credit.			May be taken two times for credit.		
Completion of interactive multimedia projects, including production, testing, and delivery of an original CD-ROM title, kiosk presentation, or interactive multimedia Web site.			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 use platforms. Principles of designing and maintaining efficient and successful Web sites.		
CAST 70D	3D MODELING & ANIMATION FOR MULTIMEDIA	3 Units	CAST 80	SELECTED TOPICS IN SOFTWARE APPLICATIONS	3 Units
Advisory: CIS 50A or equivalent recommended.			One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			May be taken three times for credit.		
May be taken three times for credit.			Introduction to various software application technologies as they emerge.		
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	3 Units	CAST 86A	INTRODUCTION TO ADOBE INDESIGN	3 Units
Advisory: CIS 50A or equivalent, and familiarity with digital video, digital audio, common graphics formats recommended.			Advisory: CIS 50A or equivalent.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken two times for credit.			May be taken three times for credit.		
Introduction to DVD authoring environment. Hands-on experience developing DVD-based multimedia presentations incorporating video, animation, sound, graphics and interactivity.			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 70BL	INTRODUCTION TO FINAL CUT PRO	3 Units	CAST 86B	ADVANCED ADOBE INDESIGN	3 Units
Advisory: CIS 50A or equivalent			Advisory: CAST 86A		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken three times for credit.			May be taken three times for credit.		
Beginning concepts and methods of Final Cut Pro and its use in editing film, video and sound with the application of filters and special effects. Software capabilities and limitations; hands-on experience.			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	3 Units
Advisory: CIS 50A or equivalent. Not open to students with credit in CAST 105B or CIS 116B.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken three times for credit.		
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	3 Units
Advisory: CAST 89A or equivalent recommended.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken three times for credit.		
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	3 Units
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken three times for credit.		
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	3 Units
Advisory: CAST 90A or equivalent recommended.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken three times for credit.		
Advanced concepts and methods of Adobe Illustrator and its use in graphic illustrations and problem solving. Software capabilities and limitations.		
CAST 91A	INTRODUCTION TO PAINTER	3 Units
Advisory: CIS 50A or equivalent recommended.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken three times for credit.		
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	3 Units
Advisory: CAST 91A or equivalent recommended.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken three times for credit.		
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 93A	POWERPOINT: EFFECTIVE PRESENTATIONS	3 Units
Advisory: CIS 50A recommended.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be taken two times for credit.		
Provides the student with a step-by-step approach to developing efficient and effective presentations using an assortment of presentation media. The dual focus is on the development and delivery of presentation content and the use of sophisticated computer applications for effective presentations. Topics include organizing the presentation, developing content, use of presentation applications such as Powerpoint and Astound, putting a presentation on the Web and other presentation delivery techniques.		
CAST 102	COMPUTER KEYBOARDING SKILLS	.5 Unit
Advisory: Not open to students with credit in CIS 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.		
CAST 102B	MS WINDOWS: BASICS	3 Units
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
May be repeated two times.		
An overview of computer hardware, software and operating systems concepts. Shows the use of help, launching applications, managing files and folders with Explorer and My Computer as well as handling disk maintenance.		
CAST 102C	WINDOWS: HARD DISK MANAGEMENT & UTILITIES	2.5 Units
One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
Hands-on introduction to hard disk management, memory management, and the use of utility software; virus software, software installation and peripherals.		
CAST 102E	PC: VIRUS PROTECTION	2.5 Units
One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
Introduction to virus protection, detection, and repair for DOS and Windows microcomputer systems. Hands-on experience with installation and maintenance of selected virus software packages.		
CAST 104A	MICROSOFT WORD I	2.5 Units
One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
May be taken four times for credit.		
Hands-on experience, including formatting, editing, saving, and printing letters, memos and other short documents, with an introduction to the spelling checker and use of the thesaurus.		
CAST 104B	MICROSOFT WORD II	2.5 Units
Advisory: CAST 104A or equivalent recommended.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
May be taken four times for credit.		
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.		
CAST 107D	EXCEL: BASICS	2.5 Units
One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
May be taken four times for credit.		
Hands-on introduction to Excel and its use in creating worksheets, graphs, databases and macros across various microcomputer platforms.		
CAST 109F	USING ACCESS	2.5 Units
Advisory: CIS 50A or equivalent recommended.		
One-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
Introduction to Microsoft Access, a relational database management software tool.		
CAST 190	DIRECTED STUDY	.5 Unit
CAST 190X		1 Unit
CAST 190Y		1.5 Units
CAST 190Z		2 Units
Corequisite: Concurrent enrollment in a computer science class or enrollment in any class requiring computer usage.		
Advisory: Pass/No Pass.		
For each unit of credit there is a total of four hours of instruction of which one-half-hour is lecture.		
May be taken six times for credit.		
Computer projects for students who desire or require additional help in attaining comprehension and competency in computer skills.		

CAST 200A	INTRODUCTION TO MS OFFICE	1 Unit	CAST 242A	MS EXCEL: DATABASES	1 Unit
One hour lecture.			Advisory: CAST 241A or equivalent recommended. Not open to students with credit in CAST 107B.		
Introduction to MS Office and its use in problem solving. Office capabilities and limitations; hands-on experience with the Office interface, Word, Excel and Power Point.			One hour lecture.		
CAST 203A	MS WINDOWS BASICS	1 Unit	Introduction to basic database concepts and commands of Excel, including the creation, sorting, and searching of databases. Intended for continuing education.		
One hour lecture.					
Introduction to MS Windows and its use in problem solving. Windows graphical user interface capabilities and limitations; hands-on experience.					
CAST 204A	MS WORD BASICS	1 Unit	CAST 243A	MS EXCEL: CHARTS & MACROS	1 Unit
One hour lecture.			Advisory: CAST 242A or equivalent recommended. Not open to students with credit in CAST 107C.		
Hands-on experience, including formatting, editing, saving, and printing letters, memos, and other short documents, with an introduction to MS Word tools.			One hour lecture.		
CAST 206A	PC CONSTRUCTION & OPERATION	1 Unit	Introduction to graph and macro concepts and commands of Excel, including the creation and customizing of various charts and macros. Intended for continuing education.		
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.					
CAST 207A	PC HARD DISK MANAGEMENT	1 Unit	CAST 250	FUNDAMENTALS OF PC NETWORKING	1 Unit
Advisory: Not open to students with credit in CAST 102C.			One hour lecture.		
One hour lecture.			Introduction to the concepts underlying networking IBM PCs, DOS, and Windows-based computers. Intended for continuing education.		
Learn how to manage your hard drive effectively; hands-on experience. Intended for continuing education.					
CAST 221	OVERVIEW OF ADOBE PHOTOSHOP	1 Unit	COMPUTERS ON THE INTERNET		
Advisory: CAST 200B or equivalent recommended. Not open to students with credit in CAST 92A.			Computers, Technology & Information Systems Division	(650) 949-7236	
One hour lecture.				www.foothill.edu/ctis/	
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.					
CAST 222A	INTRODUCTION TO PRESENTATION SOFTWARE: POWERPOINT	1 Unit	COIN 51	FUNDAMENTALS OF INTERNET TECHNOLOGY	5 Units
One hour lecture.			Advisory: CIS 50A or equivalent, or familiarity with UNIX recommended.		
Introduction to presentation software using Microsoft PowerPoint hands-on experience to produce text, graphic, chart and graph images for professional presentations.			Four hours lecture, four hours terminal time.		
			May be taken two times for credit.		
CAST 230L	OVERVIEW OF MULTIMEDIA	.5 Unit	Using the Internet to connect and communicate via the World Wide Web and email, retrieve current useful information using searching tools, prepare a simple HTML Web page, and locate Internet resources to find software and answers to troubleshooting problems.		
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 various software to integrate text, graphics, animation, sound and movies.					
CAST 232A	MACROMEDIA DIRECTOR I	1 Unit	COIN 53	INTRODUCTION TO ONLINE LEARNING	1 Unit
Advisory: CAST 200A or 200B, or equivalent, recommended.			Advisory: Familiarity with an Internet browser and e-mail recommended.		
One hour lecture.			Pass/No Pass		
Macromedia Director is a 2D animation and authoring tool for interactive multimedia applications. Create, combine and synchronize animation, graphics and text with audio and video. Add interactivity to your presentations using buttons and scripts. Intended for continuing education.			One hour lecture, two hours terminal time		
			This course covers concepts, tools and techniques for success in online 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 online instruction.		
CAST 240A	MS ACCESS BASICS	1 Unit	COIN 56	E-BUSINESS	4 Units
Advisory: Not open to students with credit in CAST 109F.			Advisory: CIS 50A or equivalent, and COIN 61 or equivalent. Familiarity with Internet commerce and e-business recommended. Internet connectivity.		
One hour lecture.			Four hours lecture, and three hours terminal time.		
Introduction to Access, a relational database tool; hands-on experience. Intended for continuing education.			May be taken three times for credit.		
CAST 241A	MS EXCEL: WORKSHEETS	1 Unit	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-marketplaces, technology trends in enterprise computing including Web services and knowledge management, and global e-commerce and development considerations.		
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.					

COIN 58	ELECTRONIC COMMERCE PROJECTS	5 Units	
Advisory: COIN 50 and 56, or equivalent, and familiarity with Internet commerce and business models strongly recommended. Requires Internet connectivity. Three hours lecture, two hours laboratory, four hours terminal time.			
May be taken three times for credit.			
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 recommended			
Three hours lecture, one hour lecture in laboratory, five hours terminal time. May be taken three times for credit.			
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, Using the Internet and COIN 61 HTML Publishing I.			
Three hours lecture, one and one-half hours lecture-laboratory, five hours terminal time.			
May be taken three times for credit.			
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 66	WORLD WIDE WEB SERVER MANAGEMENT	3 Units	
Advisory: COIN 63 and CIS 68A or equivalent recommended.			
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			
May be taken three times for credit.			
Practices and procedures in the installation, operation, maintenance, and security of a World Wide Web server.			
COIN 68	CGI SCRIPTING USING PERL	4 Units	
Advisory: CIS 68E, COIN 61, CIS 68A, and CIS 25A or CIS 15A or equivalent.			
Four hours lecture and three hours terminal time.			
May be taken three times for credit.			
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 70	JAVASCRIPT (ECMASCRIPT)	4 Units	
Advisory: COIN 63 and basic programming knowledge are recommended.			
Two hours lecture, two hours lecture-laboratory, three hours terminal time.			
May be taken three times for credit.			
Using Javascript to create interactive and animated Web sites by taking advantage of Document Object Model (DOM) accessibility via both languages.			
COIN 70A	INTRODUCTION TO PROGRAMMING USING JAVASCRIPT	4 Units	
Advisory: COIN 63.			
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	4 Units	
Advisory: COIN 63 and COIN 70A or prior experience with an object oriented programming language (C/C++/JAVA).			
Two hours lecture, two hours lecture-laboratory, three hours terminal time. May be taken three times for credit.			
Using JavaScript 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 72	WEB MARKETING	3 Units	
Advisory: CIS 50A or equivalent, and COIN 61 or equivalent recommended.			
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			
May be taken three times for credit.			
How to market your Web site on the Internet. Classroom critiques of your site, fine tuning to compete with successful online business models. Select an effective domain name and list your site to hundreds of search engines and directories. How to get quality links to your site, and use newsgroups and online mailing lists to advertise your site effectively.			
COIN 74	WEB PUBLISHING TOOLS: DREAMWEAVER	3 Units	
Advisory: COIN 61 or equivalent and familiarity with current Internet technologies (e-mail, Web browsers, common graphics formats, FTP) recommended.			
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			
May be taken two times for credit.			
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 76	WEB PUBLISHING TOOLS: MULTIMEDIA	4 Units	
Advisory: CIS 50A, COIN 51, 61.			
Two hours lecture, two hours lecture in laboratory, four hours terminal time.			
May be taken three times for credit.			
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 78	EXTENSIBLE MARKUP LANGUAGE (XML)	5 Units	
Advisory: COIN 61 or equivalent, and ability to program in Java or JavaScript recommended.			
Four hours lecture, four hours terminal time.			
May be taken three times for credit.			
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 like XHTML, Scalable Vector Graphics (SVG), and the Wireless Markup Language (WML).			

COIN 78B	INTERNET PROGRAMMING WITH XML	5 Units	COIN 82	IMAGES FOR THE WEB	3 Units
Advisory: COIN 78, and familiarity with the JAVA programming language and SQL			Advisory: CAST 92A or equivalent recommended.		
Two hours lecture, two hours lecture in laboratory, and five hours			One and one-half hours lecture, one and one-half hours lecture-laboratory,		
terminal time outside of class.			three hours terminal time.		
May be taken three times for credit.			Image preparation and design for the Web using Photoshop and other tools.		
Advanced topics in Internet programming focusing on the use and integration of XML, Java, and database technologies for Web application development.			Image acquisition and correction, conversion and optimizing images for the		
This course is intended for students in the Internet programming discipline and			Web with application to various browsers. Software capabilities and limitations;		
professionals who need to develop hands on programming skills specifically for			hands-on experience.		
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					
B2Bi (Business to Business integration) and Web services. Topics will include an					
overview of the most current application architecture platforms and frameworks					
used by industry, including implementations in NT, Unix, and Linux environments					
and vendor strategies.					
COIN 78C	XML FOR INFORMATICS	5 Units	COIN 84	SPECIAL WEB PROJECTS	5 Units
Advisory: COIN 78.			Advisory: CIS 50A, COIN 51, 61, 63 recommended.		
Three hours lecture, one hour lecture/laboratory and four hours terminal time.			Two hours lecture, two hours lecture-in-laboratory, four hours terminal time.		
May be taken three times for credit.			Student-led Web site development teams will create a fully functioning Web site,		
The World Wide Web is transitioning from a content Web, to a process Web, to a			based on techniques learned in previously taken CAST/COIN classes. Technologies		
knowledge Web. This course introduces the Semantic Web and Semantic Web			used will include HTML, Javascript and Java, and CGI, plus software packages		
technologies to students with a firm command of XML and an interest in knowledge			such as Photoshop, GIF Builder and desktop publishing software.		
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 79	XML FOR BIOINFORMATICS	5 Units	COIN 86	SERVER-SIDE PROGRAMMING WITH JAVASERVER PAGES (JSP)	5 Units
Advisory: COIN 51 or equivalent. BTEC 51A and BTEC 52A.			Advisory: CIS 27A and COIN 61 or equivalent, COIN 78, and the ability to write		
Two hours lecture, two hours lecture in laboratory, and five hours terminal time.			simple SQL statements highly recommended. Requires Internet connectivity.		
May be taken three times for credit.			Four hours lecture, four hours terminal time.		
Introduction to mark-up languages, including HTML and XML, as a method of gaining			May be taken three times for credit.		
practical experience and learning the fundamentals of BIOML (BIOploymer Markup			Concepts and techniques used for creating dynamic Web sites with JSP as the		
Language). This course is intended for students in the bioinformatics discipline			primary programming language. Topics include Server-side Web site programming		
who need to understand mark-up languages for encapsulating, transmitting,			for creating dynamic and distributed Web sites; Java Servelets and its relation to		
and presenting biological data on the World Wide Web, with special emphasis placed			JSP; customized tag creation for improved code design; XML integration for content		
on interaction and collaboration with bioinformatics databases, and rendering			management and business-to-business (B2B) content and data exchange over		
biopolymer data with BIOML.			the Internet; Java Beans utilization and database connectivity with JDBC; and a		
			survey of various required JSP environments like Jserve and Jrun, and overview		
			of their installation and configuration.		
COIN 80	SELECTED TOPICS IN INTERNET TECHNOLOGY	3 Units	COIN 88	USING UML FOR WEB APPLICATION DEVELOPMENT	3 Units
Advisory: COIN 61 recommended.			Advisory: Object oriented programming course (Java recommended),		
One and one-half hours lecture, one and one-half hours lecture-laboratory,			hands-on use of Microsoft Visio, and CIS 60 or equivalent recommended.		
three hours terminal time.			One and one-half hours lecture, one and one-half hours lecture-laboratory,		
Introduction to various Internet technologies and Web development tools.			three hours terminal time.		
COIN 81	INTRODUCTION TO BIOINFORMATICS TOOLS & DATABASES	5 Units	May be taken three times for credit.		
Prerequisites: COIN 51 or equivalent. BTEC 51A and BTEC 52A			This course will provide a basic understanding of visual modeling tools and methods		
Two hours lecture, two hours lecture in laboratory, and two hours terminal.			for software application development, focusing on the Unified Modeling Language		
May be repeated two times for credit.			(UML). Microsoft Visio, Visual Studio, and/or specific industry applications (Rational		
This practical course provides an introduction to Internet databases, tools and			Rose) will be used to model Web-deployed software applications. Special emphasis		
methods used in bioinformatics, emphasizing genomic and protein databases			will be placed on understanding business process requirements gathering and		
including NCBI, GenBank, SWISS-PROT, SWISS-MODEL, PBD, PIR, and Pfam.			effective modeling techniques using the UML.		
Course focus on the practical use of bioinformatics tools and databases to explore					
the genome, proteome, and transcriptome in applied problem spaces. The use					
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. Experience with					
markup languages and programming is useful but not required.					

COIN 92	DATABASE-DRIVEN WEB SITES: STEP BY STEP	5 Units	COIN 117	COIN INTERNSHIP	.5 Unit
	Prerequisite: CIS 52A, COIN 63, COIN 70, COIN 91		COIN 117X		1 Unit
	Advisory: Some background in a programming language such as Visual Basic, JAVA, or PERL.		COIN 117Y		1.5 Units
	Two hours lecture, two hours lecture in laboratory, and four hours terminal. May be taken three times for credit.		COIN 117Z		2 Units
	An in-depth 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.		Advisory: Pass/No Pass.		
COIN 94	CONSTRUCTING DATA-DRIVEN WEB SITES WITH PHP & MYSQL	5 Units	For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.	For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.	
	Prerequisite: COIN 92.		May be taken three times for credit.	May be taken three times for credit.	
	Advisory: Familiarity with the JavaScript programming language. Students must have a very good understanding of HTML and some background in a programming language such as Visual Basic, JAVA, or PERL. A working knowledge of the Linux operating system is helpful, especially command line statements.		Actual work experience in a business, commercial or industrial facility.		
	Two hours lecture, two hours lecture in laboratory, and four hours terminal. May be taken three times for credit.				
	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, 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	COIN 209	NAVIGATING THE INTERNET	1 Unit
	Prerequisite: CIS 12A, COIN 66, COIN 94.		Advisory: Not open to students with credit in COIN 50. Familiarity with PC or Mac recommended.		
	Advisory: Familiarity with the JavaScript programming language. Students must have a very good understanding of HTML as well as IIS Web server technology.		One hour lecture.		
	Two hours lecture, two hours lecture in laboratory, and four hours terminal. May be taken three times for credit.		May be repeated three times for credit.		
	A comprehensive introduction to .NET Web database integration tools which presents a systematic approach to the design, 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.		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 109	SELECTED BUSINESS TOPICS FOR THE WEB ADMINISTRATOR	6 Units	COIN 210L	WORLD WIDE WEB PAGE DESIGN	.5 Unit
	Advisory: COIN 56, 66 or equivalent.		One-half hour lecture.		
	Six hours lecture.		May be taken three times for credit.		
	May be taken two times for credit.		Elementary design and creation of World Wide Web pages. Hands-on experience creating Web pages.		

COOPERATIVE WORK EXPERIENCE EDUCATION

Cooperative Education	(650) 949-7232
	www.foothill.edu/coop/
CWE 51	OCCUPATIONAL WORK EXPERIENCE:
CWE 51X	1 Unit
CWE 51Y	2 Units
CWE 51Z	3 Units
	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.	
Fifty hours of paid or forty hours of unpaid employment per unit of credit.	
May be repeated until nine units of General Cooperative Education have been earned, within a maximum of 24 total units in all Cooperative Education courses.	
Identify and assess learning in current job. Introduce career paths within occupational choice. Learning/performance objectives are agreed upon between student and employer.	
CWE 52	OCCUPATIONAL WORK EXPERIENCE:
CWE 52X	2 Units
CWE 52Y	4 Units
CWE 52Z	6 Units
	8 Units
Prerequisite: Student must be working in a job related to declared occupational program or educational goal.	
Fifty hours of paid employment or forty hours of unpaid employment per quarter for each unit of credit.	
May be repeated until 24 units of Cooperative Education courses have been earned.	
Students will assess their career/life development and current work activities by being introduced to the concept of career paths within their occupational choice. Learning/performance objectives agreed upon between the student and employer will be identified and carried out. Students will be encouraged to view their objectives in terms of a planned series of experiences. Participation in work experience will facilitate the appropriateness of the current career choice.	

CWE 60,T-Z OCCUPATIONAL WORK EXPERIENCE: APPRENTICE 6 Units

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.

Advisory: Apprentices must be working in a job related to declared occupational program or educational goal.

2.7 hours per week laboratory (18 weeks). Fifty hours paid or 40 hours unpaid employment per unit of credit.

May be repeated for credit until a maximum of 24 total units in all cooperative education courses have been earned.

Identify and assess learning in current job. Introduce career paths within occupational choice. Learning/performance objectives are agreed upon between apprentice and employer.

CWE 70 GENERAL WORK EXPERIENCE 1 Unit

CWE 70X 2 Units

CWE 70Y 3 Units

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.

Advisory: Student must be currently employed and obtain approval of Work Experience instructional personnel.

Fifty hours of paid employment or forty hours of unpaid employment per quarter for each unit of credit.

May be repeated until nine units of Cooperative Education have been earned, within a maximum of 24 total units in all Cooperative Education courses.

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.

CWE 71 GENERAL WORK EXPERIENCE: 1 Unit

CWE 71W ALTERNATE 3 Units

CWE 71X 2 Units

Prerequisite: student must be currently employed.

Fifty hours of paid employment or forty hours of unpaid employment per quarter for each unit of credit.

(May be taken until 9 units have been earned in this course within a maximum of 24 units in all Cooperative Education courses).

Students will acquire and identify transferable skills gained under actual working conditions. Student 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 concepts of self, understanding their role in the work world and setting realistic goals. Assigned faculty coordinator helps the student focus on the job skills necessary for transition into a chosen career. Learning/performance objectives agreed upon between the student and employer will be identified and carried out. Students will be encouraged to view their objectives in terms of a planned series of experiences.

CWE 192 COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR COOPERATIVE WORK EXPERIENCE 1 Unit

Corequisite: Concurrent enrollment in a Cooperative Work Experience Education class.

Advisory: Pass/No Pass.

One hour lecture, three hours laboratory.

May be taken six times for credit.

For students who desire training and technical support in experiential learning as a community volunteer in specific cooperative work experience disciplines.

COUNSELING

Counseling Division

(650) 949-7296

www.foothill.edu/transfer/counseling/

CNSL 1 COLLEGE SUCCESS 3 Units

Formerly CNSL 60

Three hours lecture.

Examination of factors that contribute to college success, including responsibility/control; competition; task-precision; expectations; wellness; time management; college involvement; family/support systems involvement. Activities include: testing and individualized evaluations; group processing and practicum.

CNSL 2 COLLEGE & LIFE MANAGEMENT 4 Units

Three hours lecture and 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 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 53 EFFECTIVE STUDY 3 Units

Three hours lecture.

Approaches to college learning, including diagnosis of difficulties and a development of new skills.

CNSL 54 STUDY SKILLS FOR STUDY TEAMS 1 Unit

One hour lecture.

May be taken six times for credit.

Participants in study teams will identify, develop, apply and explore skills appropriate for working together to study for specific general education courses.

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 60C COLLEGE SUCCESS: TIME MANAGEMENT 1 Unit

One hour lecture.

The components of time management and how they contribute to college success. A comprehensive time management plan will be initiated and applied.

CNSL 85G 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 85GA ADVANCED ASSERTIVE COMMUNICATION 1.5 Units

Advisory: CNSL 85G or equivalent course recommended.

One and one-half hours lecture.

Review of basic assertive communication; advanced concepts in assertive thinking, feeling and behaving. Examination of irrational thinking, criticism and anger of assertive communication.

CNSL 85H 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	CRWR 36A	WRITING FOR THE PERFORMING ARTS: AN INTERNET COURSE	4 Units
Advisory: CRLP 70 recommended. Pass/No Pass.			Prerequisite: Eligibility for ENGL 1A.		
One hour lecture.			Advisory: Not open to students with credit in DRAM 55A or F TV 65A.		
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.			Four hours lecture.		
CNSL 86	LEADERSHIP: THEORIES, STYLES & REALITIES	1 Unit	Introduction to writing for stage, television and film. Examination and practice of story structure, character development, and dialogue crafting, with an emphasis on understanding the visual nature of writing for the performing arts.		
Advisory: Eligibility for ENGL 110 or ESL 25 recommended.					
One hour lecture.					
May be taken six times for credit.					
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	CRWR 36B	PLAYWRITING	4 Units
CNSL 86LY		2 Units	Advisory: Not open to students with credit in VART 5B, DRAM 5B.		
CNSL 86LZ		3 Units	Four hours lecture, one hour laboratory.		
Three hours laboratory for each unit of credit.			May be taken six times for credit.		
May be repeated six times for credit.			Intermediate 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.		
Practical field experience for students in campus leadership positions, related to material being presented in CNSL 86.					
CNSL 90	INTRODUCTION TO ONLINE LEARNING	1 Units	CRWR 36C	SCREENPLAY WRITING	4 Units
Advisory: Familiarity with an Internet Browser and E-mail recommended.			Advisory: Not open to students with credit in F TV 5C, DRAM 5C.		
One hour lecture, 2 hours computer time, Pass/No Pass.			Four hours lecture, one hour laboratory.		
This course covers concepts, tools and techniques for success in online 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 online instruction.			May be taken six times for credit.		
CNSL 200L	INTRODUCTION TO COLLEGE LABORATORY	.5 Unit	Intermediate writing for television and film. Examination and practice of story structure, character development, dialogue crafting, with an emphasis on understanding the visual nature and unique requirements of writing for television and film.		
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.					
CREATIVE WRITING					
Language Arts Division		(650) 949-7250	CRWR 39A	INTRODUCTION TO SHORT FICTION WRITING	5 Units
		www.foothill.edu/la/	Prerequisite: Eligibility for ENGL 1A.		
			Five hours lecture and one hour laboratory.		
CRWR 6	INTRODUCTION TO CREATIVE WRITING	5 Units	May be taken two times for credit.		
Prerequisite: Eligibility for ENGL 1A.			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.		
Five hours lecture, one hour lab.					
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. Lecture and workshop. [CAN ENGL 6]					
CRWR 34	HONORS INSTITUTE SEMINAR IN CREATIVE WRITING	1 Unit	CRWR 39B	ADVANCED SHORT FICTION WRITING	5 Units
Prerequisite: Membership in the Honors Institute. Eligibility for ENGL 1A.			Prerequisite: CRWR 39A.		
One hour lecture.			Five hours lecture and one hour laboratory.		
A seminar in directed readings, discussions and projects in creative writing. Specific topics to be determined by the instructor.			May be taken two times for credit.		
			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			
Prerequisite: Eligibility for ENGL 1A					
Five hours lecture and one hour laboratory.					
May be taken four times for credit.					
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.					
CRWR 41A	POETRY WRITING	5 Units			
Prerequisite: Eligibility for ENGL 1A.					
Five hours lecture, one hour lab.					
May be taken two times for credit.					
Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work. Lecture and workshop.					

CRWR 41B ADVANCED POETRY WRITING	5 Units	D A 53B DENTAL RADIOGRAPHY	2 Units
Prerequisite: CRWR 41A.		Prerequisite: DA 53A.	
Five hours lecture, one hour lab.		One hour lecture, three hours laboratory.	
May be taken two times for credit.		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.	

CRWR 60 MEMOIR WRITING	5 Units	D A 53C DENTAL RADIOGRAPHY	1 Unit
Prerequisite: Eligibility for English 1A		Prerequisite: DA 53A and 53B.	
Five hours lecture. One hour laboratory.		Three hours laboratory.	

DENTAL ASSISTING

Biological & Health Sciences Division	(650) 949-7351	D A 56 DENTAL HEALTH EDUCATION	1 Unit
	www.foothill.edu/bio/dentala/	One hour lecture and one hour field study.	
D A 50 ORIENTATION TO DENTAL ASSISTING	3 Units	D A 57 OFFICE EMERGENCY PROCEDURES	2 Units
Three hours lecture and one hour field study.		Two hours lecture.	
Preview of dental practice, including specialties, history, professional and legal responsibilities and the role of the dental auxiliary; dental and medical terminology; dental forms, records and charts, patient communication and office personnel relations.		Overview of psychological or common medical problems which could lead to an emergency situation in a dental office. Emphasis placed on prevention, management, and legal issues of an emergency response.	
D A 51A INTRODUCTION TO CHAIRSIDE DENTAL ASSISTING	6 Units	D A 58 SPECIALITY PRACTICE PROCEDURES	1 Unit
Two hours lecture, 1 hour seminar, 9 hours lab, and 8 hours field experience.		Two hours lecture-laboratory.	
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, cement bases and liners, topical agents, composites, resins and amalgams.		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 51B INTERMEDIATE CLINICAL DENTAL ASSISTING	2 Units	D A 60A DENTAL OFFICE BUSINESS PRACTICES	2 Units
One and one-half hours lecture, two hours laboratory.		Two hours lecture, one hour laboratory.	
Continuation of techniques introduced in DA 51A; periodontal and oral surgery procedures. Registered Dental Assistant orthodontic functions, fabrication of bleaching splints, dental sealants.		Introduction to appointment management, telephone techniques, dental and office records; correspondence, billing procedures, treatment plan and case presentation; bookkeeping and accounting procedures, and the use of computers in the dental office.	
D A 51C ADVANCED DENTAL ASSISTING SKILLS	3 Units	D A 60B DENTAL OFFICE BUSINESS PRACTICES	3 Units
Two and one-half hours lecture, four hours laboratory.		Three hours lecture, one hour laboratory.	
Continuation of techniques introduced in DA 51A, DA 51B to include pulp vitality testing, fluoride administration, intraoral/extracanal exam, polishing removable partial and full dentures, dental implants, and pedodontic procedures. Theory and practice of coronal polishing.		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 53A INTRODUCTION TO RADIOGRAPHY	3 Units	D A 61 ULTRASONIC SCALING FOR THE RDA	1.5 Units
Prerequisite: Admission to Dental Assisting Curriculum.		Prerequisite: DA 51A, 51B, or equivalent.	
Two hours lecture, three hours laboratory.		One hour lecture, one and one-half 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.		Theory and practice of the Ultrasonic Scaler in removing excess supragingival cement from the coronal surfaces of the teeth undergoing orthodontic treatment.	
D A 62A DENTAL SCIENCES	2 Units	D A 62B DENTAL SCIENCES	2 Units
Three hours lecture, one hour laboratory.		Two hours lecture.	
Discussion of anatomy and morphology of the teeth, the eruption sequence and process; normal occlusion, development and class of malocclusions; anatomy of the skull, arteries and veins, musculature and nervous structures of the head and neck.		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	D H 52A	ORAL BIOLOGY	3 Units
Two hours lecture.			Prerequisite: Acceptance into the Dental Hygiene Program.		
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.			Two hours lecture, two hours laboratory.		
D A 63	SPECIAL PATIENT POPULATIONS	1 Unit	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.		
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	D H 52B	ORAL BIOLOGY	3 Units
One and one half hour lecture and one hour field study.			Prerequisite: DH 52A.		
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.			Two hours lecture, two hours laboratory.		
D A 73	DENTAL ASSISTING SUPERVISED CLINIC	3 Units	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.		
Prerequisite: DA 51A.					
Sixteen hours clinic and two hours field study.			D H 53		
Continuation of techniques introduced in DA 51A; supervised clinical experience in externship environment, chairside dental assisting in general practice and specialty clinics at the UCSF School of Dentistry.			ASSESSMENT PROCEDURES IN THE DENTAL HYGIENE PROCESS		
D A 74	DENTAL ASSISTING CLINICAL PRACTICE	3 Units	Prerequisite: Admission into the Dental Hygiene Program.		
Seventeen hours clinic and two hours field study.			Four hours lecture.		
Continuation of techniques introduced in DA 51A, 51B and 73; supervised clinical experience in externship environment; advanced and specialty chair side procedures.			First in a three-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.		
D A 85	RDA REVIEW	1 Unit	D H 54	PRE-CLINICAL DENTAL HYGIENE	4 Units
Prerequisites: DA 51A and 51B.			Prerequisite: Acceptance into the Dental Hygiene Program.		
One hour lecture, three hours laboratory and two hours field study.			One hour lecture, nine hours laboratory, three hours field experience.		
May be taken three times for credit.			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 A 190	DIRECTED STUDY	.5 Unit	D H 55A	FUNDAMENTALS OF PATHOLOGY	2 Units
D A 190X		1 Unit	Corequisite DH 52B		
D A 190Y		1.5 Units	Two hours lecture.		
D A 190Z		2 Units	Introduction to general pathology and specific pathologic processes, repair, healing, and regressive changes. Social significance of pathology.		
Advisory: Pass/No Pass.			D H 55B	FUNDAMENTALS OF PATHOLOGY	2 Units
For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.			Corequisite: DH 55A.		
May be taken six times for credit.			Two hours lecture.		
For students who desire or require additional help in attaining comprehension and competency in learning skills.			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	D H 57A	PERIODONTICS	2 Units
Prerequisite: BIOL 46, DH 61A or licensed dental hygienist or dentist.			Corequisite: DH 55B.		
Two hours lecture.			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.			Examination of anatomy and physiology of periodontium. Correlation of basic sciences with the clinical aspects of periodontal diseases. Etiology and pathogenesis of periodontal diseases.		
D H 50	ORIENTATION TO DENTAL HYGIENE	1 Unit			
Prerequisite: Admission to Dental Hygiene Program					
One & one half hours lecture/lab.					
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 57B	PERIODONTICS	2 Units	D H 61B	INTRODUCTION TO CLINIC	4 Units
Corequisite: DH 57A.			Prerequisite: Completion of DH 61A and 52B. Possession of a current CPR certificate.		
Two hours lecture.			Three hours lecture, six hours clinic/laboratory, three hours field experience.		
Fundamental principles of periodontology, including normal periodontium, etiology and classification of periodontal disease; relationship of dental deposits to periodontal diseases. Development of periodontal pocket and abscess. Process of bone loss.			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 57C	PERIODONTICS	2 Units	D H 62A	CLINICAL DENTAL HYGIENE	2.5 Units
Prerequisite: DH 57B.			Prerequisite: DH 61B.		
Two hours lecture.			Two hours lecture, nine hours clinic/laboratory, one hour field experience.		
Emphasis on periodontal surgeries and treatment. Role of the hygienist in nonsurgical therapy, periodontal surgical therapy, and periodontal maintenance therapy.			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 59	SURVEY OF DENTISTRY	1 Unit	D H 62B	CLINICAL DENTAL HYGIENE	5 Units
Prerequisite: Admission to the Dental Hygiene Program.			Prerequisite: DH 57A and 61A.		
One hour lecture and one hour field experience.			One hour lecture, nineteen hours clinic, three hours field experience.		
Dental Procedures in the specialty office with emphasis on dental auxillary duties and collaboration with dental specialties for comprehensive patient/client care.			Continuation of clinical dental hygiene practice. Assessing, planning, implementing and evaluation 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 60A	INTRODUCTION TO DENTAL RADIOGRAPHY	2 Units	D H 62C	CLINICAL DENTAL HYGIENE	5 Units
Corequisite: Acceptance into the Dental Hygiene Program			Prerequisite: DH 62B.		
One hour lecture.			One hour lecture, nineteen hours clinic, three hours field experience.		
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.			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 60B	DENTAL RADIOGRAPHY	1 Unit	D H 62D	CLINICAL DENTAL HYGIENE	5 Units
Corequisite: Completion of DH 60A.			Prerequisite: DH 62C.		
Three hours laboratory.			One hour lecture, nineteen hours clinic, three hours field experience.		
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.			Continuation of clinical dental hygiene 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 60C	DENTAL RADIOGRAPHY	.5 Unit	D H 63C	COMMUNITY DENTAL HEALTH	3 Units
Corequisite: DH 60B.			Prerequisite: DH 73.		
One hour lecture-laboratory.			Two hours lecture, eight hours field experience.		
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.			Introduction into community dental health problems and school dental health programs; development and implementation of a community dental health program.		
D H 60D	DENTAL RADIOGRAPHY	.5 Unit	D H 63D	COMMUNITY DENTAL HEALTH	3 Units
Five hours lecture, one hour laboratory.			Prerequisite: DH 63C.		
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.			Two hours lecture, eight hours field experience.		
D H 60E	DENTAL RADIOGRAPHY	.5 Unit	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.		
Prerequisite: DH 60D.			D H 64	ETHICS, LAW & DENTAL OFFICE PRACTICES	2 Units
One hour lecture-laboratory.			Advisory: DH 63D recommended.		
Continuation of film exposure, processing and mounting; group-individual evaluation and interpretations of film.			Two hours lecture.		
D H 61A	CLINICAL TECHNIQUE	5 Units	Ethics, jurisprudence and practice aspects of private practice.		
Prerequisites: Completion of DH 52A and 54 or completion of a dental hygiene program with equivalent courses.			D H 65	CLINICAL LOCAL ANESTHESIA	2.5 Units
Three hours lecture, nine hours laboratory, three hours field experience.			Prerequisites: Completion of DH 55A, 61B, or completion of dental hygiene program with equivalent courses. Possession of current CPR certificate.		
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.			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	D H 75B	CLINICAL DENTAL HYGIENE THEORY	1.5 Units
Prerequisite: DH 65.			Corequisite: Concurrent enrollment in Dental Hygiene Program.		
One hour lecture.			One hour lecture, three hours laboratory.		
Training for the dental hygiene student or dental hygienist in performing soft tissue curettage.			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 DH62C.		
D H 67	NITROUS OXIDE/OXYGEN ANALGESIA	1 Unit	D H 75C	CLINICAL DENTAL HYGIENE THEORY	1.5 Units
Prerequisite: DH 66.			Corequisite: Concurrent enrollment in the dental hygiene program.		
Two hours lecture-laboratory.			One hour lecture, three hours lab.		
Training for the dental hygiene student or dental hygienist in performing nitrous oxide/oxygen analgesia.			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 68A	RADIOGRAPHIC INTERPRETATION A	1 Unit	D H 85	SPECIAL TOPICS IN DENTAL HYGIENE	1 Unit
Prerequisite: DH 60A.			Prerequisites: DH 55B and 62B.		
One hour lecture.			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.			May be taken six times for credit.		
D H 68B	RADIOGRAPHIC INTERPRETATION B	1 Unit	New developments in dentistry which effect the practice of dental hygiene; information necessary for completion of requirements for national certification and licensure in the state of California.		
Prerequisite: DH 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	D H 86	CALIFORNIA STATE BOARD PREPARATION	1 Unit
Prerequisite: Admission to Dental Hygiene Program.			Prerequisite: DH 62D or equivalent.		
Advisory: Not open to students with credit in DA 57.			Advisory: Pass/No Pass.		
Two hours lecture.			One-half hour lecture, two hours laboratory.		
Medical and dental emergencies; types of prevention management and vital signs, principles of pharmacology, drug actions and interactions, toxicity and allergy, dental drugs in common use, drugs used in the treatment of medical problems. Legal aspects in assisting in emergencies.			May be taken two times for credit.		
D H 72	DENTAL MATERIALS	3 Units	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.		
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	D H 190	DIRECTED STUDY	.5 Unit
Advisory: DH 53, PSYC 1 recommended.			D H 190X		1 Unit
Two hours lecture.			D H 190Y		1.5 Units
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 190Z		2 Units
D H 75A	CLINICAL DENTAL HYGIENE THEORY	1 Unit	Advisory: Pass/No Pass.		
Corequisite: Concurrent enrollment in the Dental Hygiene Program.			For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.		
One hour lecture, three hours laboratory.			May be taken six times for credit.		
Discussion and demonstration of supplemental dental hygiene functions: digital intraoral photography, dental hygiene instrumentation, ultrasonic and microultrasonic scaling techniques. Supportive course to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for DH62B.			For students who desire or require additional help in attaining comprehension and competency in learning skills.		
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) 949-7249 www.foothill.edu/bio/ultra/					
DMS 50A	DIAGNOSTIC MEDICAL SONOGRAPHY PRINCIPLES & PROTOCOLS	4 Units			
Formerly: RSUS 50A					
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 51A SECTIONAL ANATOMY <i>Formerly: RSUS 51A</i> 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 and 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 as related sonography, computerized tomography and magnetic resonance imaging. Discussions include pathology-related alterations to sectional anatomy images.	3 Units	DMS 55A OBSTETRICS <i>Formerly: RSUS 55A</i> Prerequisite: Admission to the Diagnostic Medical Sonography Program. Two hours lecture, one hour internet skills. Intermediate and advanced obstetrical sonography. Normal fetal growth and sonographic measurements with correlation to accepted standards. Development of the placenta, amniotic fluid and cord. Abnormalities, pathology and maternal complications.	2 Units
DMS 52A PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY <i>Formerly: RSUS 52A</i> 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.	3 Units	DMS 55B OBSTETRICS <i>Formerly: RSUS 55B</i> 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.	2 Units
DMS 52B PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY <i>Formerly: RSUS 52B</i> Prerequisite: Admission to the Diagnostic Medical Sonography Program. 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.	3 Units	DMS 56A VASCULAR SONOGRAPHY <i>Formerly: RSUS 56A</i> 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.	3 Units
DMS 53A DIAGNOSTIC MEDICAL SONOGRAPHY <i>Formerly: RSUS 53A</i> 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.	2 Units	DMS 56B ADVANCED APPLICATIONS OF VASCULAR TECHNOLOGY <i>Formerly: RSUS 56B</i> Prerequisite: DMS 56A and six months full-time clinical experience in vascular sonography be completed prior to enrollment or equivalent Three hours lecture. May be taken up to three times for credit. Instruction includes the advanced principles and theory of noninvasive vascular technology in an interactive didactic format. 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.	3 Units
DMS 53B DIAGNOSTIC MEDICAL SONOGRAPHY <i>Formerly: RSUS 53B</i> Prerequisite: Admission to the Diagnostic Medical Sonography Program Two hours lecture, one and one half hour internet skills. Anatomy and physiology related to major and superficial structures and organs including sonography of abdominal organs, thyroid, parathyroid, peritoneum, retroperitoneum, male reproductive system and pelvis. Assessment including physical, clinical symptoms, and laboratory findings. Related pathology and its sonographic appearance involving these structures. Scanning protocols, technical factors and image quality.	2 Units	DMS 60A CRITIQUE & PATHOLOGY <i>Formerly: RSUS 60A</i> Prerequisite: Admission to the Diagnostic Medical Sonography Program. Two hours lecture and 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.	2 Units
DMS 53C DIAGNOSTIC MEDICAL SONOGRAPHY <i>Formerly: RSUS 53C</i> Prerequisite: Admission to the Diagnostic Medical Sonography Program Two hours lecture, one and one half hour internet skills.. Anatomy, physiology and pathology of abdominal organs, neurosonography, superficial structures, musculoskeletal, organ transplant, gastrointestinal system, and the pediatric patient. Use of ultrasound in the operating room with a review of aseptic technique. Discussion of related medical ethics and legal issues.	2 Units	DMS 60B CRITIQUE & PATHOLOGY <i>Formerly: RSUS 60B</i> 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.	1 Unit
DMS 54A GYNECOLOGY <i>Formerly: RSUS 54A</i> 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.	2 Units	DMS 60C CRITIQUE & PATHOLOGY <i>Formerly: RSUS 60C</i> 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 gynecological subjects.	1 Unit

DMS 60D	CRITIQUE & PATHOLOGY	1 Unit
<i>Formerly: RSUS 60D</i>		
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
<i>Formerly: RSUS 60E</i>		
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 Units
<i>Formerly: RSUS 70A</i>		
Prerequisite: Admission to Diagnostic Medical Sonography Program		
Thirty-five hours laboratory, one hour skills, one hours multimedia, one hour collaborative learning.		
Designed as an internship 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 abdominal and gynecological examinations as to delineate complete anatomic and functional information for interpretation.		
DMS 70B	CLINICAL PRECEPTORSHIP	8 Units
<i>Formerly: RSUS 70B</i>		
Prerequisite: DMS 70A.		
Thirty-five hours laboratory, one hour skills, one hours multimedia, one hour collaborative learning.		
Designed as an internship 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 and gynecological examinations as to delineate complete anatomic and functional information for interpretation.		
DMS 70C	CLINICAL PRECEPTORSHIP	8 Units
<i>Formerly: RSUS 70C</i>		
Prerequisite: DMS 70B		
Thirty-two hours laboratory, one hour skills, one hours multimedia, one hour collaborative learning.		
Designed as an internship 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 advanced abdominal examinations and vascular sonography as to delineate complete anatomic and functional information for interpretation.		
DMS 70D	CLINICAL PRECEPTORSHIP	8 Units
<i>Formerly: RSUS 70D</i>		
Prerequisite: DMS 70C		
Thirty-two hours laboratory, one hour skills, one hour multimedia, one hour collaborative learning.		
Designed as an internship in a medical setting to obtain the technical expertise with emphasis on the advanced 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 advanced and specialized applications in sonography.		
DMS 72A	DIAGNOSTIC MEDICAL SONOGRAPHY PROCEDURES & APPLICATIONS	6 Units
<i>Formerly: RSUS 72A</i>		
Prerequisite: Admission to Diagnostic Medical Sonography Program.		
One hour lecture, Fifteen hours lab		
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
<i>Formerly: RSUS 72E</i>		
Prerequisite: Admission to Diagnostic Medical Sonography Program.		
One hour lecture, three hours lab		
Will apply advanced proficiency levels toward image acquisition, implementing technical quality, interpretation and case 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
<i>Formerly: RSUS 80A</i>		
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 library/internet 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		
One-half hour lecture, seven and one-half hours laboratory		
May be taken six times for credit.		
For students who desire or require additional help in attaining comprehension and competency in learning skills.		
DRAMA		
Fine Arts & Communications Division		(650) 949-7130
		www.foothill.edu/fa/
DRAM 1	THEATRE ARTS APPRECIATION	4 Units
Four hours lecture. One hour lab.		
The status of live theatre and its historical, cultural and spiritual roots. 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 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	DRAM 20BL	ACTING LABORATORY	1 Unit
Prerequisite: Eligibility for ENGL 1A.		Corequisite: Concurrent enrollment in DRAM 20B.			
Advisory: Not open to students with credit in ENGL 42C.		Three hours laboratory.			
Four hours lecture.		Supervised study and rehearsal in acting projects. Three hours supervised practice.			
Analysis of representative masterpieces of dramatic literature from the beginning of the 20th Century to the present.					
DRAM 5B	PLAYWRITING	4 Units	DRAM 20C	PRINCIPLES OF ACTING	3 Units
Formerly: DRAM 55B		Prerequisite: DRAM 20A and 20B			
Advisory: Not open to students with credit in VART 5B or CRWR 36B.		Corequisite: Concurrent enrollment in DRAM 20CL recommended.			
Four hours lecture. One and one-half hour laboratory.		Advisory: Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20CL for 1 unit.			
Intermediate 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.		Six hours lecture-laboratory.			
Further development of concepts introduced in Drama 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 CSU.					
DRAM 6	ADVANCED PLAYWRITING	4 Units	DRAM 20CL	ACTING LABORATORY	1 Unit
Prerequisite: DRAMA 5B		Corequisite: Concurrent enrollment in DRAM 20C.			
Four hours lecture, one hour laboratory.		Three hours laboratory.			
May be taken six times for credit.		Supervised study and rehearsal in acting projects. Three hours supervised practice.			
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	DRAM 20D	PRINCIPLES OF ACTING	3 Units
Formerly DRAM 52.		Prerequisite: DRAM 20A, 20B and 20C			
Three hours lecture, three hours laboratory.		Corequisite: Concurrent enrollment in DRAM 20DL recommended.			
May be repeated three times.		Advisory: Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20DL for 1 unit.			
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, stage business and characterization as applied to the directing of plays.		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.					
DRAM 8	MULTICULTURAL MOSAIC OF PERFORMING ARTS IN AMERICA	4 Units	DRAM 20DL	ACTING LABORATORY	1 Unit
Four hours lecture, one hour laboratory.		Corequisite: Concurrent enrollment in DRAM 20D.			
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, European Americans, and Chicano/Latino Americans.		Three hours laboratory.			
Supervised study and rehearsal in acting projects. Three hours supervised practice.		Supervised study and rehearsal in acting projects. Three hours supervised practice.			
DRAM 20A	PRINCIPLES OF ACTING	3 Units	DRAM 20E	PRINCIPLES OF ACTING	3 Units
Corequisite: Concurrent enrollment in DRAM 20AL recommended.		Prerequisite: DRAM 20A or DRAM 20B			
Advisory: Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20AL for 1 unit.		Six hours lecture-laboratory.			
Six hours lecture-laboratory.		May be taken six times for credit.			
Introduction to the craft of acting, including theory and technique emphasizing body movement, voice production, articulation, characterization principles of motivation, and scene analysis. [DRAM 20A & 20B = CAN DRAM 8]		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.			
DRAM 20AL	ACTING LABORATORY	1 Unit	DRAM 20EL	ACTING LABORATORY	1 Unit
Prerequisites: Concurrent enrollment in DRAM 20A		Corequisite: Concurrent enrollment in DRAM 20E.			
Three hours laboratory.		Three hours laboratory.			
Supervised study and rehearsal in acting projects. Three hours supervised practice.		May be taken six times for credit.			
Supervised study and rehearsal in acting projects. Three hours supervised practice.		Supervised study and rehearsal in acting projects. Three hours supervised practice.			
DRAM 20B	PRINCIPLES OF ACTING	3 Units	DRAM 21A	FUNDAMENTALS OF THEATRE PRODUCTION	4 Units
Prerequisite: DRAM 20A		Six hours lecture-laboratory, three hours laboratory.			
Corequisite: Concurrent enrollment in DRAM 20BL recommended.		Theory and practice of play production stressing planning, design, coordination, execution, rehearsal and management. Practical experience in staging dramatic presentations, including the use of theatrical equipment, set construction, painting, properties, costumes, lighting, theatre management and publicity.			
Advisory: Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20BL for 1 unit.					
Six hours lecture-laboratory.					
Further development of concepts introduced in DRAM 20A, emphasizing improvisation and theatre games. [DRAM 20A & 20B = CAN DRAM 8]					
DRAM 21B	FUNDAMENTALS OF THEATRE PRODUCTION	4 Units	DRAM 21B	FUNDAMENTALS OF THEATRE PRODUCTION	4 Units
Continuation of DRAM 21A. The theory and practice of play production, stressing planning, design, coordination, 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 21C	FUNDAMENTALS OF THEATRE PRODUCTION	4 Units	DRAM 40B	THEATRICAL MAKE-UP FOR PRODUCTION	4 Units
	Prerequisite: DRAM 20A.			Prerequisite: DRAM 40A.	
Six hours lecture-laboratory, three hours laboratory.			Three hours lecture, three hours laboratory.		
May be taken four times for credit.			May be taken two times for credit.		
Continuation of DRAM 21B. The theory and practice of play production, stressing planning, design, coordination, 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.			Continuation of work in DRAM 40A with emphasis in practical experience for the stage.		
DRAM 21D	CONSERVATORY THEATRE PRODUCTION	2 Units	DRAM 40BL	THEATRICAL MAKE-UP LABORATORY	1 Unit
Four hours lecture/laboratory.			Corequisite: Concurrent enrollment in DRAM 40B.		
Repeatable for 12 units maximum.			Three hours 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.			Supervised study and practice in stage make-up and application techniques.		
DRAM 24	READERS THEATRE	4 Units	DRAM 42A	INTRODUCTION TO SCENE DESIGN	4 Units
Three hours lecture, three hours laboratory.			Three hours lecture, three hours laboratory.		
May be taken six times for credit.			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.		
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	DRAM 42B	INTERMEDIATE SCENE DESIGN	4 Units
Three hours lecture, three hours laboratory.			Three hours lecture, three hours laboratory.		
The techniques of selection, comprehension, interpretation, and performance of prose, poetry, and dramatic literature.			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 34	HONORS INSTITUTE SEMINAR IN THEATRE ARTS	1 Unit	DRAM 42C	ADVANCED SCENE DESIGN	4 Units
Prerequisite: Membership in the Honors Institute.			Three hours lecture, three hours laboratory.		
One hour lecture.			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.		
A seminar in directed readings, discussions and projects in theatre arts.					
DRAM 35	DEPARTMENT HONORS PROJECTS IN DRAMA	2 Units	DRAM 44	PRODUCTION PROJECTS	5 Units
Prerequisite: Audition/interview with instructor.			Prerequisite: DRAM 20A.		
Six hours laboratory.			Four hours lecture, four hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Individual advanced projects in acting, theatre production, stage craft, design or theatre research.			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 38	MOVEMENT PRACTICUM FOR THE ACTOR	2 Units	DRAM 46	VOICE & DICTION	4 Units
Prerequisite: Concurrent or past enrollment in the Foothill Theatre Conservatory.			Advisory: Not open to students with credit in SPCH 46.		
One and one-half hours lecture, one and one-half hours laboratory.			Three hours lecture, three hours laboratory.		
May be taken six times for credit.			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.		
A one quarter, intensive investigation of one or more of the following areas of stage movement for the actor: Body awareness, flexibility, alignment, balance, muscle isolation and coordination; stress reduction and relaxation on stage; breath control; recognized theories of movement; stage combat; historical styles of movement; characterization through movement; mask technique; dance for the actor; physical safety. The application of these skills to the performance of dramatic literature from a wide range of ethnic, social and historical sources.					
DRAM 40A	BASIC THEATRICAL MAKE-UP	4 Units	DRAM 47	SUMMER MUSIC-DRAMA WORKSHOP	3 Units
Three hours lecture, three hours laboratory.			DRAM 47X		5.5 Units
A practical introduction to the techniques of applying theatrical make-up for the stage. [CAN DRAM 14]			DRAM 47Y		10 Units
DRAM 40AL	THEATRICAL MAKE-UP LABORATORY	1 Unit	DRAM 47: Nine hours laboratory. DRAM 47X: Seventeen hours laboratory. DRAM 47Y: Thirty hours laboratory.		
Corequisite: Concurrent enrollment in DRAM 40A.			May be taken six times for credit.		
Three hours laboratory.			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.		
Supervised study and practice in stage make-up and application techniques.					

DRAM 48	VOICE PRACTICUM FOR THE ACTOR	2 Units
Prerequisite: Concurrent or past enrollment in the Foothill Theatre Conservatory.		
One and one-half hours lecture, one and one-half hours laboratory.		
May be taken six times for credit.		
A one quarter, intensive investigation of one or more of the following areas of voice study for the actor: principles of vocal production; breathing techniques; vocal work adapted to a variety of performance settings; employment of International Phonetic Alphabet; dialects; voice-over, on-camera and other voice-amplified experiences; singing techniques for the actor. The application of these skills to the performance of dramatic literature from a wide range of ethnic, social and historical sources.		
DRAM 49	REHEARSAL & PERFORMANCE	3 Units
DRAM 49X		4.5 Units
DRAM 49Y		5.5 Units
Nine, twelve, sixteen and one-half hours laboratory.		
May be taken six times for 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		
Three hours lecture, three hours laboratory.		
May be taken two times for credit.		
Acting theory and practice, vocal production and theatre choreography in the presentation of complex scenes from the musical theatre.		
DRAM 51BL	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	AUDITIONING FOR THEATRE	4 Units
Prerequisite: DRAM 20A (may be taken concurrently).		
Three hours lecture, three hours laboratory.		
May be taken for a maximum of 12 units for credit.		
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		
Three hours lecture, three hours laboratory.		
May be taken six times for credit.		
Further development of concepts introduced in DRAM 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 56A	INTRODUCTION TO MIME	2 Units
Advisory: Completion of DRAM 20A recommended.		
One and one-half hours lecture, one and one-half hours laboratory		
The character and practice of mime in its classical and primitive aspects, and its use in dance, Asian theatre, silent film, and modern French and American mime.		
DRAM 56B	INTERMEDIATE MIME	2 Units
Prerequisites: DRAM 56A		
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 58	GESTURE & MOVEMENT FOR THE ACTOR	4 Units
Three hours lecture, three 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 59	DIALECTS & THEATRE SPEECH	4 Units
Three hours lecture, three hours laboratory.		
An introduction to vocal development and maintenance with specific study and work in various dialects for the stage.		
DRAM 61	THE THEATRE LIVE ON-STAGE	3 Units
Two hours lecture, four hours laboratory.		
May be taken six times for credit.		
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	4 Units
Prerequisite: DRAM 20A.		
Three hours lecture, three hours laboratory.		
May be taken six times for credit.		
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 21 C.		
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.		
Three hours lecture, three hours laboratory.		
May be taken three times for credit.		
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	DRAM 85	DIRECTED FIELD STUDY IN THEATRE	2 Units
Prerequisite: DRAM 21A, B, or C or concurrent enrollment.			DRAM 85X		3 Units
Three hours lecture, three hours laboratory.			DRAM 85Y		4 Units
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 85Z		5.5 Units
DRAM 75	INTRODUCTION TO COSTUME TECHNOLOGY	4 Units	Advisory: Pass/No Pass.		
Advisory: DRAM 21A, 21B or 21C, or concurrent enrollment recommended.			One hour lecture, two hours lecture-laboratory.		
Three hours lecture, three hours laboratory.			May be taken six times for credit.		
May be taken three times for credit.			In-depth, intensive field study experience in a selected major center 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 76	INTRODUCTION TO COSTUME DESIGN	4 Units	DRAM 95	DRAMA SUMMER STOCK WORKSHOP	3 Units
Advisory: DRAM 21A, 21B, 21C or 75, or concurrent enrollment recommended.			DRAM 95X		5.5 Units
Three hours lecture, three hours laboratory.			DRAM 95: Nine hours laboratory. DRAM 95X: sixteen and one-half hours laboratory.		
May be taken three times for credit.			May be taken six times for credit.		
A survey of historic 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 costumes for the stage and an introduction to the use of graphic techniques in the presentation of costume designs for the stage.			A laboratory course in Summer Stock stage production. Acting, lighting, costuming, 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 77	INTRODUCTION TO LIGHTING DESIGN & TECHNOLOGY	4 Units	DRAM 96	ADVANCED VOCAL TECHNIQUES FOR THE THEATRE	1 Unit
Prerequisite: DRAM 21A, B, or C or concurrent enrollment.			DRAM 96X		2 Units
Three hours lecture, three hours laboratory.			DRAM 96Y		3 Units
May be taken three times for credit.			DRAM 96Z		4 Units
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]			Advisory: Pass/No Pass.		
DRAM 78	THEATRE TECHNOLOGY IN STEEL & RELATED MATERIALS	4 Units	Four hours laboratory for each unit of credit.		
Prerequisite: DRAM 21A, B, or C or concurrent enrollment.			May be taken six times for credit.		
Three hours lecture, three hours laboratory.			A laboratory course for advanced actors, designed to review vocal techniques. Students will prepare for actual public performances in different spaces with short-time preparation.		
DRAM 79	MODEL BUILDING FOR THEATRE, FILM & TELEVISION	4 Units	DRAM 97	ACTORS' ENSEMBLE	1 Unit
Three hours lecture, three hours laboratory.			DRAM 97X		2 Units
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 97Y		3 Units
			DRAM 97Z		4 Units
DRAM 80	RECORDING ARTS I: SOUND REINFORCEMENT	4 Units	Advisory: Pass/No Pass.		
Advisory: Not open to students with credit in MUS 80.			Four hours laboratory for each unit of credit.		
Two hours lecture, three hours lecture-laboratory, three hours laboratory			May be taken six times for credit.		
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.			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, costuming, scene design, set construction and make-up for the theatre. Students will prepare for staged productions for public performance in differing spaces.		
DRAM 98	ADVANCED STAGE MOVEMENT TECHNIQUES	1 Unit	DRAM 98	ADVANCED STAGE MOVEMENT TECHNIQUES	1 Unit
			DRAM 98X		2 Units
			DRAM 98Y		3 Units
			DRAM 98Z		4 Units
Prerequisite: Experience on stage.			Prerequisite: Experience on stage.		
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Four hours laboratory for each unit of credit.			Four hours laboratory for each unit of credit.		
May be taken six times for credit.			May be taken six times for credit.		
A laboratory course for advanced actors designed to review stage movement. Students will prepare for actual public performances in different spaces with short-time preparation.			A laboratory course for advanced actors designed to review stage movement. Students will prepare for actual public performances in different spaces with short-time preparation.		
DRAM 99	THEATRE WORKSHOP	3 Units	DRAM 99	THEATRE WORKSHOP	3 Units
			DRAM 99X		5 Units
			DRAM 99Y		10 Units
Four hours lecture-laboratory for each unit of credit.			Four hours lecture-laboratory for each unit of credit.		
May be taken six times for credit.			May be taken six times for credit.		
A laboratory course in stage production. Acting, lighting, costuming, scene design, set construction and makeup for the theatre. Students will develop a staged production.			A laboratory course in stage production. Acting, lighting, costuming, scene design, set construction and makeup for the theatre. Students will develop a staged production.		

DRAM 191	THEATRE REPERTOIRE PRACTICUM	2 Units	ECON 35	DEPARTMENT HONORS PROJECTS IN ECONOMICS	1 Unit
DRAM 191X		3 Units			
DRAM 191Y		4 Units			
DRAM 191Z		5.5 Units			
Advisory: Pass/No Pass.					
DRAM 191: Eight hours laboratory. DRAM 191X: Twelve hours laboratory. DRAM 191Y: Sixteen hours laboratory. DRAM 191Z: Twenty-two hours laboratory.					
May be taken six times for credit.					
Study, rehearsal and performance of theatre repertoire. Designed as an advanced performance course for actors and theatre technicians wishing to explore the vast theatre repertoire more fully, including 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.					

ECONOMICS

Business & Social Sciences Division	(650) 949-7322	www.foothill.edu/bss/
ECON 1A PRINCIPLES OF ECONOMICS (MACRO)	5 Units	
Five hours lecture. One hour lab.		
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 1B may be taken in either order. [CAN ECON 2]		
ECON 1B PRINCIPLES OF ECONOMICS (MICRO)	5 Units	
Five hours lecture. One hour lab.		
Micro analysis of economic life. Allocation of resources. Composition and pricing of output. Distribution of wealth and income. Nature and characteristics of business enterprises. International trade, economic development and comparative economic systems. Economics 1A or Economics 1B may be taken in either order. [CAN ECON 4]		
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 12 ECONOMIC HISTORY OF WESTERN CIVILIZATION	4 Units	
Four hours lecture.		
Development of Western economic institutions. Growth of trade, industry, finance, business and labor. Governmental organizations traced through the feudal, commercial and industrial periods. Economic understanding of the United States as compared with global economic systems.		
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 36 SPECIAL PROJECTS IN ECONOMICS	1 Unit	
ECON 36X	2 Units	
ECON 36Y	3 Units	
ECON 36Z	4 Units	
One hour lecture for each unit of credit.		
May be taken for a maximum of six units.		
Advanced readings research, and/or project in economics. Specific topics determined in consultation with instructor.		

EDUCATION

Business & Social Sciences Division	(650) 949-7322	www.foothill.edu/bss/
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	
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	
Advisory: Teaching experience recommended; online teaching experience preferred.		
Two hours lecture.		
May be taken six times for credit.		
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	
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
Advisory: Teaching experience recommended. Online teaching experience preferred.
 Two hours lecture.
 May be repeated six times for credit.
 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

Advisory: Pass/No Pass.
 One hour lecture for each unit of credit.
 May be taken three times for credit.

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.

EMERGENCY MEDICAL TECHNICIAN

Biological & Health Sciences Division (650) 949-6955
www.foothill.edu/bio/emt/

**EMT 303 EMERGENCY MEDICAL TECHNICIAN: 1.5 Units
 BASIC CONTINUING EDUCATION**

Prerequisite: Students must either possess a current EMT-1 certificate or a certification which has been expired for no more than 42 months (must complete before the end of that month) and have a current certification in American Red Cross CPR-BLS or American Heart Association Health Care Provider. Three hours lecture-laboratory.

May be taken six times for credit.

This is a thirty-six hour course which meets the education requirements as specified by the state of 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.

EMT 304 EMERGENCY MEDICAL TECHNICIAN: BASIC PART A 3 Units

Prerequisites: HLTH 5 or First Responder Course

Advisory: Part one of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician 1. 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 pre hospital 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. EMT 304 is part one of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician I.

EMT 305 EMERGENCY MEDICAL TECHNICIAN: BASIC PART B 4 Units
Prerequisite: Successful completion of EMT 304 in the last six months.
Advisory: EMT 305 is part two 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 and one and one half hours clinic. In addition to the required hours of instruction, this course requires that the student have 10 hours of patient interactions in a clinical setting. Also, 8 hours will be required for vehicle extrication, victim removal, and ambulance operations outside of class.

EMT 305 is part two 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 pre-hospital 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.

EMERGENCY MEDICAL TECHNICIAN: PARAMEDIC

Biological & Health Sciences Division (650) 949-6955
www.foothill.edu/bio/paramed/

**EMTP 100 MOBILE INTENSIVE CARE PROGRAM: 20 Units
 THEORY**

Prerequisite: Six months experience as an EMT, EMT Certification, BLS Certification.
 Thirteen hours lecture, six and one-half hours lecture-laboratory, fourteen hours laboratory.

Theoretical bases for preparation of candidates wishing to become EMT-P paramedics.

**EMTP 100A MIC PARAMEDIC PROGRAM: COGNITIVE, 14 Units
 AFFECTIVE, PSYCHOMOTOR I**

Prerequisite: Acceptance into the Paramedic Program.
 Eleven and a half hours lecture, four and a 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.

**EMTP 100B MIC PARAMEDIC PROGRAM: COGNITIVE, 13 Units
 AFFECTIVE, PSYCHOMOTOR II**

Prerequisite: Successful completion of EMTP 100A.
 Nine and one half hours lecture, six and one half hours lecture/laboratory. Theoretical bases for preparation of candidates wishing to become Emergency Medical Technician Paramedics. Recognition and treatment of cardiovascular emergencies and trauma.

**EMTP 100C MOBILE INTENSIVE CARE PARAMEDIC 12 Units
 PROGRAM: COGNITIVE, AFFECTIVE,
 PSYCHOMOTOR III**

Prerequisite: Successful Completion of EMTP 100B.
 Seven and a 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: 3.5 Units
 HOSPITAL-CLINICAL EXPERIENCE**

Prerequisite: Successful Completion of EMTP 100A
 Sixteen hours clinic.
 May be repeated four times for credit.
 Hospital rotations in the following departments: emergency, pediatrics, obstetrics, spinal ward and burn units, operating room.

EMTP 103A	MIC PARAMEDIC PROGRAM: AMBULANCE FIELD INTERNSHIP	9 Units	ENGR 35	STATICS	5 Units
Prerequisite: Successful Completion of EMTP 102			Prerequisite: MATH 1B, PHYS 4A.		
Forty hours clinic.			Advisory: ENGR 27 recommended.		
May be repeated four times for credit.			Five hours lecture.		
Continuation of ambulance field internship. Students will continue to work under the supervision of licensed paramedics.			Principles of statics as applied to particles and rigid bodies in two and three dimensions under concentrated and distributed force systems. Equilibrium conditions in structures, machines, beams and cables. Determination of centroids and moments of inertia. Dry friction and methods of virtual work. [CAN ENGR 8]		
EMTP 103B	MIC PARAMEDIC PROGRAM: AMBULANCE FIELD INTERNSHIP	9 Units	ENGR 36	SPECIAL PROJECTS	1 Unit
Prerequisite: Successful Completion of EMTP 103A.			ENGR 36X	IN ENGINEERING &	2 Units
Forty hours clinic			ENGR 36Y	TECHNOLOGY (HONORS)	3 Units
May be repeated four times for credit.			Advisory: High interest in the pursuit of engineering knowledge. Previous experience in engineering recommended.		
Continuation of ambulance field internship. Students will continue to work under the supervision of licensed paramedics.			Three hours laboratory for each unit of credit.		
EMTP 190	DIRECTED STUDY	.5 Unit	May be taken six times for credit.		
EMTP 190X		1 Unit	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.		
EMTP 190Y		1.5 Units			
EMTP 190Z		2 Units			
Advisory: Pass/No Pass.					
For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.					
May be taken six times for credit.					
For students who desire or require additional help in attaining comprehension and competency in learning skills.					

ENGINEERING

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/divisions/psme/

ENGR 6	ENGINEERING GRAPHICS	6 Units	ENGR 37	INTRODUCTION TO CIRCUIT ANALYSIS	5 Units
Four hours lecture, four hours lecture-laboratory.			Prerequisite: MATH 1B, PHYS 4B.		
The application of orthographic projection to detail and assembly drawings, with examples from various engineering fields. Geometric construction, sketching, dimensioning for interchangeable assembly and specification of materials. Graphical analysis, documentation and presentation of engineering information. 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. Use of graphics terminal in carrying out the above course components.			Five hours lecture.		
			The analysis of lumped, linear circuits, natural and forced circuit response. [ENGR 37 & 37L = CAN ENGR 6, CAN ENGR 12]		
ENGR 20	INTRODUCTION TO ENGINEERING	4 Units	ENGR 37L	CIRCUIT ANALYSIS LABORATORY	2 Units
Prerequisite: MATH 101.			Corequisite: ENGR 37.		
Advisory: ENGL 110, or ESL 25.			One hour lecture, three hours laboratory.		
Three hours lecture and 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. [ENGR 37 & 37L = CAN ENGR 6]		
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 27	ENGINEERING DESCRIPTIVE GEOMETRY	3 Units	ENGR 45	PROPERTIES OF MATERIALS	4 Units
Prerequisite: ENGR 6, or one year of high school drafting.			Prerequisite: CHEM 1B, MATH 1C, PHYS 4B (may be taken concurrently).		
Advisory: Designed for engineering transfer majors.			Three hours lecture, three hours laboratory.		
Two 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]		
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	ENGR 49	ENGINEERING PROFESSION	1 Unit
Prerequisite: Membership in the Honors Institute.			Formerly: ENGR 50		
One hour lecture.			Advisory: Intention to be an engineer recommended.		
A seminar in directed readings, discussions and projects in engineering. Specific topics to be determined by the instructor.			One hour lecture		
			A study of the engineering profession, its requirements, opportunities and responsibilities. A preview of the applications of basic science to engineering problems. Review of engineering case studies.		
ENGR 101	BASIC SKILLS IN THE WORKPLACE	2 Units	ENGR 101	BASIC SKILLS IN THE WORKPLACE	2 Units
One hour lecture, two hours lecture-laboratory.			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

(650) 949-7250
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 access to Academic Skills courses, English Writing Center, online resources, or, if assigned by instructor, individual/collaborative activities related to course. **[CAN ENGL 2; ENGL 1A & B = CAN ENGL SEQ A]**

ENGL 1B COMPOSITION, CRITICAL READING & THINKING 5 Units

Prerequisite: ENGL 1A.

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, online resources, or, if assigned by instructor, individual/collaborative activities related to course. **[CAN ENGL 4; ENGL 1A & B = CAN ENGL SEQ A]**

ENGL 1C ADVANCED COMPOSITION 5 Units

Formerly: ENGL 2

Prerequisite: ENGL 1A.

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, online resources, or, if assigned by instructor, individual/collaborative activities related to course.

ENGL 3 TECHNICAL WRITING 5 Units

Prerequisite: ENGL 1A 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 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]**

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 Quarter.

ENGL 8 CHILDREN'S LITERATURE

4 Units

Advisory: Eligibility for ENGL 1A recommended.

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 Quarter.

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 Quarter. **[CAN ENGL 20]**

ENGL 12 AFRICAN AMERICAN LITERATURE

4 Units

Advisory: Eligibility for ENGL 1A recommended.

Four hours lecture.

Literature 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 Quarter.

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 North and South American works. 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 Quarter.

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 Quarter.

ENGL 18 INTRODUCTION TO MYTH IN LITERATURE

4 Units

Prerequisite: Eligibility for ENGL 1A.

Four hours lecture.

A study of significant myths and legends of Western civilization and their use and influence in literature; discussions of and comparisons to myths in other cultures.

ENGL 19	INTRODUCTION TO THE BIBLE AS LITERATURE	4 Units	ENGL 31	CHICANO LITERATURE	4 Units
Prerequisite: Eligibility for ENGL 1A.		Advisory: Eligibility for ENGL 1A recommended.		Four hours lecture.	
An introduction to the study of the Bible in English as an anthology of literary types, with consideration of its history and influence on our culture. Offered Winter Quarter.		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 English 41).			
ENGL 22	WOMEN WRITERS	4 Units	ENGL 32	IRISH LITERATURE	4 Units
Advisory: Eligibility for ENGL 1A recommended.		Advisory: Eligibility for ENGL 1A recommended.		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 Quarter.		A careful study of selections from early Irish mythology and folklore up to, and including, contemporary short stories, novels and poetry by Irish writers.			
ENGL 23	MODERN ENGLISH: FUNCTION & GRAMMAR	4 Units	ENGL 34	HONORS INSTITUTE SEMINAR IN ENGLISH	1 Unit
Prerequisite: Eligibility for ENGL 1A.		Prerequisite: Membership in the Honors Institute.		One hour lecture.	
Advisory: Not open to students with credit in LING 23.		May be taken three times for credit.		A seminar in directed readings, discussions, and projects in English. Specific topics to be determined by the instructor.	
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 Fall Quarter.					
ENGL 25	INTRODUCTION TO DESCRIPTIVE & HISTORICAL LINGUISTICS	4 Units	ENGL 35	SEMINARS IN ENGLISH	1 Unit
Prerequisite: Eligibility for ENGL 1A.		ENGL 35X		2 Units	
Advisory: Not open to students with credit in LING 25.		ENGL 35Y		3 Units	
Four hours lecture.		ENGL 35Z		4 Units	
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 Winter Quarter.		Advisory: ENGL 1A			
		One hour lecture for each unit of credit.			
		May be taken for a maximum of six units.		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 26	LANGUAGE, MIND & SOCIETY	4 Units	ENGL 36	INDIVIDUAL PROJECTS IN ENGLISH	1 Unit
Prerequisite: Eligibility for ENGL 1A.		ENGL 36X		2 Units	
Advisory: Not open to students with credit in LING 26.		ENGL 36Y		3 Units	
Four hours lecture.		ENGL 36Z		4 Units	
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 Quarter.		Advisory: Eligibility for ENGL 1A.			
		One hour lecture for each unit of credit.			
		May be taken for a maximum of six units.		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 27A-F	SHAKESPEARE PLAYS	4 Units	ENGL 41	LITERATURE OF MULTICULTURAL AMERICA	4 Units
Formerly ENGL 49A-F		Prerequisite: Eligibility for ENGL 1A.		Four hours lecture.	
Prerequisite: Eligibility for ENGL 1A.		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 English 31).			
Three hours lecture, three hours laboratory.					
A study of six or seven Shakespeare plays. Plays will be examined through viewing of BBC Shakespeare on Ambrose Video, reading of the texts, study of supplementary materials, and classroom discussion.					
ENGL 30	SPECIAL TOPICS IN ENGLISH	4 Units	ENGL 42A	INTRODUCTION TO DRAMATIC LITERATURE	4 Units
Advisory: Eligibility for ENGL 1A recommended.		Prerequisite: Eligibility for ENGL 1A.		Four hours lecture.	
Four hours lecture.		Advisory: Not open to students with credit in DRAM 2A.			
May be taken two times for credit.		Four hours lecture.		Analysis of representative masterpieces of dramatic literature from Aeschylus through the Renaissance Period and including Asian Theatre.	
Intensive study of selected special topics in language and literature. Subjects vary from quarter to quarter. Consult current schedule for exact title.					
ENGL 42B	INTRODUCTION TO DRAMATIC LITERATURE	4 Units	ENGL 42B	INTRODUCTION TO DRAMATIC LITERATURE	4 Units
Prerequisite: Eligibility for ENGL 1A.		Prerequisite: Eligibility for ENGL 1A.			
Advisory: Not open to students with credit in DRAM 2B.		Advisory: Not open to students with credit in DRAM 2B.			
Four hours lecture.		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	ENGL 51B	STUDENT SUCCESS IN THE ENGLISH CLASSROOM	2 Units
Prerequisite: Eligibility for ENGL 1A.			Two hours lecture.		
Advisory: Not open to students with credit in DRAM 2C.			May be taken twice for credit.		
Four 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 text 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 writing clarity, specificity, and confidence.		
ENGL 46A	SURVEY OF ENGLISH LITERATURE	4 Units	ENGL 52	ANALYTICAL READING	3 Units
Prerequisite: ENGL 1A or ESL 26.			Prerequisite: Eligibility for ENGL 1A.		
Four hours lecture.			Six hours lecture-laboratory.		
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds from Beowulf through Shakespeare to the Metaphysical Poets. Offered Fall Quarters. [ENGL 46A & 46B = CAN ENGL 8; ENGL 46A & 46B & 46C = CAN ENGL SEQ B]			Small group and individualized instruction in techniques for improving comprehension. Development of advanced assimilative reading skills and expansion of vocabulary. Practice in critical reading skills as demanded by college-level coursework.		
ENGL 46B	SURVEY OF ENGLISH LITERATURE	4 Units	ENGL 54	PROFESSIONAL WRITING SKILLS	4 Units
Prerequisite: ENGL 1A or ESL 26.			Prerequisites: Eligibility for ENGL 1A.		
Four hours lecture.			Four hours lecture.		
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds from the Metaphysical Poets to the Romantics. Offered Winter Quarters. [ENGL 46A & 46B = CAN ENGL 8; ENGL 46B & 46C = CAN ENGL 10; ENGL 46A & 46B & 46C = CAN ENGL SEQ B]			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.		
ENGL 46C	SURVEY OF ENGLISH LITERATURE	4 Units	ENGL 80	INTRODUCTION TO TRAVEL WRITING	4 Units
Prerequisite: ENGL 1A or ESL 26.			Advisory: Eligibility for ENGL 1A		
Four hours lecture.			Four hours lecture.		
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds, from Romantic, Victorian and Modern writers. Offered Spring Quarters. [ENGL 46B & 46C = CAN ENGL 10; ENGL 46A & 46B & 46C = CAN ENGL SEQ B]			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 48A	SURVEY OF AMERICAN LITERATURE	4 Units	ENGL 97A-H	SHAKESPEARE FIELD TRIP	3 Units
Prerequisite: ENGL 1A.			Advisory: Eligibility for ENGL 1A recommended.		
Four hours lecture.			Two hours lecture, two hours lecture-laboratory.		
Introduction to representative works of the Colonial and Romantic eras (1650-1855). Critical analysis of social, political, and philosophical conflicts in American culture through the study of poetry, fiction, and non-fiction prose. Offered Fall Quarters.			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 48B	SURVEY OF AMERICAN LITERATURE	4 Units	ENGL 100	INTRODUCTION TO COLLEGE READING	5 Units
Prerequisite: ENGL 1A.			Advisory: Not open to students with credit in ENGL 108.		
Four hours lecture.			Five hours lecture. One hour lab.		
Introduction to representative works from the Pre-Civil War period to WWI (1855-1914). Critical analysis of social, political, and philosophical conflicts in American culture through the study of poetry, fiction, and non-fiction prose. Offered Winter Quarters.			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 page length and with written responses. 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 English 205 and should repeat English 100. Open laboratory can be access to Academic Skills courses, English Writing Center, online resources, or, if assigned by instructor, individual/collaborative activities related to course.		
ENGL 48C	SURVEY OF AMERICAN LITERATURE	4 Units	ENGL 104A	NARRATIVE READING & WRITING: PUENTE	5 Units
Prerequisite: ENGL 1A.			Advisory: Not open to students with credit in ENGL 108 or 100		
Four hours lecture.			Five hours lecture.		
Introduction to representative authors of the Modern Age (1914-present). Critical analysis of social, political, and philosophical conflicts in American culture through the study of poetry, fiction, and non-fiction prose. Offered Spring Quarters.			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.		
ENGL 51A	STUDENT SUCCESS IN THE ENGLISH CLASSROOM	2 Units			
Two hours lecture.					
Repeatability: May be taken twice for credit.					
Exploration of essential skills and strategies for use in the English classroom and beyond. Development of personal responsibility for choices and self-motivation to achieve academic goals and success. Critical analysis of self-limiting and self-defeating behaviors which prevent the completion of English assignments. Hands-on, experiential strategies to develop greater self-awareness and writing clarity, specificity, and confidence.					

ENGL 104B ANALYTICAL READING & WRITING: PUENTE	5 Units	ENGL 205 ALTERNATE CREDIT READING SKILLS	5 Units
Prerequisite: ENGL 104T.		Corequisite: Concurrent enrollment in ENGL 100 or ENGL 108.	
Advisory: Not open to students with credit in ENGL 108 or 110.		Five hours lecture.	
Five hours lecture		May be taken two times for credit.	
Introduction to short analytical forms of college-level reading and writing: essays, critiques, editorials, reports, summary, commentary. Materials used to be theme-based from Latino/Mexican American authors. 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 215 and should repeat ENGL 104B or ENGL 100/110 sequence.		Designed to allow students enrolled in ENGL 100 (or ENGL 108) to receive credit for mastery of some but not all of the outcomes of ENGL 100 (or the reading portion of 108). Students are required to attend the ENGL 100 (or 108) course, turn in all work, and participate in the other tasks of the class. Does not meet the Foothill College reading requirement.	
ENGL 108 READING & WRITING ON SPECIAL TOPICS 10 Units		ENGL 215 ALTERNATE CREDIT WRITING SKILLS	5 Units
Prerequisite: Must be eligible for both ENGL 100 and 110 based on assessment information.		Corequisite: Concurrent enrollment in ENGL 110 or ENGL 108.	
Advisory: Not open to students who have completed ENGL 100 and/or ENGL 110.		Five hours lecture.	
Ten hours lecture.		May be taken two times for credit.	
Course offers a team-taught collaborative approach to introduce students to college-level reading and writing skills. Class time is equally divided between critical reading applied to a themed collection of prose, e.g. textbook material, fiction, and expository/persuasive articles; and the creation of college-level essays and papers which use the themed readings as source material. Vocabulary and grammar skills are covered within the context of the readings and writing projects. Class format can include lecture, discussion, group projects, and individualized instruction. Students not meeting expected outcomes may be assigned an alternate credit grade.		Designed to allow students enrolled in ENGL 110 (or ENGL 108) to receive credit for mastery of some but not all of the outcomes of ENGL 110 (or the writing portion of ENGL 108). Students are required to attend the ENGL 110 (or ENGL 108) course, turn in all work, and participate in the other tasks of the class. Does not meet the Foothill College writing requirement.	
ENGL 110 INTRODUCTION TO COLLEGE WRITING 5 Units		ENGLISH AS A SECOND LANGUAGE	
Prerequisites: Eligibility based on assessment or successful completion of ENGL 100.		Language Arts Division	
Advisory: Not open to students with credit in ENGL 108.			(650) 949-7250
Five hours lecture. One hour lab.			www.foothill.edu/la/
Explicit instruction and practice in writing expository essays, emphasizing clear sentence structure and logical development. Assignments include summary and synthesis of texts, critical analysis, as well as personal writing. Instruction includes rules of and practice on punctuation skills. Lecture, discussion, collaborative, and individualized instruction. Students not meeting all expected outcomes may be assigned a grade and units of credit in ENGL 215 and should repeat ENGL 110. Open laboratory can be access to Academic Skills courses, English Writing Center, online resources, or, if assigned by instructor, individual/collaborative activities related to course.		ESL 25 COMPOSITION & READING 5 Units	
ENGL 114 PRODUCING A STUDENT NEWSPAPER 2 Units		Prerequisite: Appropriate placement test score or successful completion of ESL 166 and ESL 167.	
Prerequisite: Eligibility for ENGL 1A.		Advisory: Designed for students whose native language is not English. Concurrent enrollment in ESL 176 and/or 177 strongly recommended.	
Two hours lecture, one hour lab.		Five hours lecture, one hour laboratory.	
May be taken six times for credit.		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.	
Conception, writing, editing, and publication of articles for a college student newspaper; learning of key concepts regarding journalism procedures, laws, and ethics; performance of auxiliary duties such as advertising, sales, and distribution.		ESL 26 ADVANCED COMPOSITION & READING 5 Units	
ENGL 190 DIRECTED STUDY .5 Unit		Prerequisite: Appropriate placement test score or successful completion of ESL 25.	
ENGL 190X 1 Unit		Advisory: Designed for students whose native language is not English. Successful completion of or concurrent enrollment in ESL 176 and/or 177 strongly recommended.	
ENGL 190Y 1.5 Units		Five hours lecture, one hour laboratory.	
ENGL 190Z 2 Units		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. Fulfils the composition requirement for the A.A. degree.	
Advisory: Pass/No Pass.		ESL 134 FUNDAMENTALS OF ENGLISH 10 Units	
For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.		Advisory: Concurrent enrollment in ESL 137 recommended. Designed for students whose native language is not English.	
May be taken six times for credit.		Ten hours lecture, two hours laboratory.	
For students who desire or require additional help in attaining comprehension and competency in learning skills; non-transferable course.		This course is not repeatable.	
		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.	

ESL 136 BASIC GRAMMAR FOR COMMUNICATION 5 Units
Advisory: Concurrent enrollment in ESL 137 recommended. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.
This course is not repeatable.
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.

ESL 137 BASIC READING & WRITING SKILLS 5 Units
Advisory: Successful completion of or concurrent enrollment in ESL 136 or ESL 134. Designed for students whose native language is not English.
Five hours lecture, one hour lab.
A basic English course for non-native speakers focusing on reading, emphasizing student use of prior knowledge and experience. Introduction to the use of logical conjecture. Focus on overall meaning and holistic reading. Library and lab work for extensive reading and vocabulary development.

ESL 145 ORAL COMMUNICATION SKILLS I 5 Units
Advisory: Appropriate placement test score or successful completion of ESL136 and ESL 137. Designed for students whose native language is not English.
Five hours lecture.
This course is not repeatable.

Basic practice in listening to everyday English and participating in everyday conversations. Pronunciation work to develop clear speech and comprehension of naturally spoken English. Reading and writing tasks related to listening and speaking.

ESL 146 INTERMEDIATE GRAMMAR FOR COMMUNICATION 5 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 134 or ESL 136.
Advisory: Successful completion of ESL 137. Concurrent enrollment in ESL 147 recommended. Designed for students whose native language is not English
Five hours lecture, one hour laboratory.
This course is not repeatable.
Continuation of ESL 134/136. An intermediate English course for non-native speakers focusing on comprehension, communication, and grammatical accuracy. Emphasis on understanding and communication of familiar and recently learned information in spoken and written contexts. Computer and workbook activities to reinforce knowledge of structures.

ESL 147 INTERMEDIATE READING SKILLS 5 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 136 and ESL 137.
Advisory: Concurrent enrollment in ESL 146 recommended. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.

Continuation of ESL 137. An intermediate course for non-native speakers focusing on reading, including work on making inferences and understanding figurative language. Computer and/or workbook activities to reinforce knowledge of material and skills.

ESL 155 DEVELOPING LISTENING/SPEAKING SKILLS 5 Units
Prerequisite: Appropriate placement score or successful completion of ESL 145.
Advisory: Successful completion of ESL146 and ESL 147. Designed for students whose native language is not English.
Five hours lecture.
This course is not repeatable.
Development of ability to listen to everyday English and to participate in everyday conversations. Introduction to academic listening and classroom interactional skills, discussion skills and the language of group work dynamics. Pronunciation work to develop clear speech and comprehension of naturally spoken English. Reading and writing tasks related to listening and speaking.

ESL 156 HIGH-INTERMEDIATE GRAMMAR 5 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 146.
Advisory: Successful completion of ESL 147. Concurrent enrollment in ESL 157 recommended. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.
This course is not repeatable.

Continuation of ESL 146. A high-intermediate English course for non-native speakers focusing on comprehension, communication, and grammatical accuracy. Emphasis on understanding and communication of new information, conjectures, and logical relationships in spoken and written contexts. Computer or workbook activities to reinforce knowledge of structures.

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 recommended. 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 college-level academic reading. Computer and/or workbook activities to reinforce knowledge of material and skills.

ESL 165 LISTENING/SPEAKING FOR ACADEMIC PURPOSES 5 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 155.
Advisory: Successful completion of ESL156 and ESL 157. Designed for students whose native language is not English.
Five hours lecture.
This course is not repeatable.

A listening/speaking course focusing on preparing students for listening to authentic lectures and classroom discussions. Practice with classroom interactional, 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 15.
Advisory: Successful completion of ESL 157. Concurrent enrollment in ESL 167 recommended. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.
This course is not repeatable.

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 successful completion of ESL 156 and ESL 157.
Advisory: Successful completion of or concurrent enrollment ESL 166. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.
This course is not repeatable.

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 176	APPLIED GRAMMAR & EDITING SKILLS	3 Units	ESL 237	ALTERNATIVE CREDIT: BASIC READING & WRITING SKILLS	5 Units
Prerequisite: ESL 166 or appropriate assessment			Advisory: Pass/No Pass.		
Corequisite: Concurrent enrollment in ESL 25, 26, ENGL 110, 1A or 1B.			Five hours lecture, one hour laboratory.		
Advisory: Pass/No Pass.			May be taken two times for credit.		
Three hours lecture.			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.		
May be repeated two times for credit.					
Review of basic English grammar for the purpose of enabling students to effectively edit their own papers. Includes analysis of published writings, study of grammatical rules, various grammar exercises, editing sample papers, and writing and editing original papers.					
ESL 177	ADVANCED VOCABULARY DEVELOPMENT FOR READING & WRITING	3 Units	ESL 245	ALTERNATE CREDIT: ORAL COMMUNICATION SKILLS I	5 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 166 and ESL 167.			Advisory: Pass/No Pass.		
Advisory: Designed for students whose native language is not English.			Five hours lecture.		
Three hours lecture.			May be taken two times for credit.		
May be repeated two times for credit.			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.		
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 225	ALTERNATE CREDIT: COMPOSITION & READING	5 Units	ESL 246	ALTERNATE CREDIT: INTERMEDIATE GRAMMAR FOR COMMUNICATION	5 Units
Advisory: Pass/No Pass			Advisory: Pass/No Pass		
Five hours lecture, one hour lab			Five hours lecture, one hour lab		
Maybe taken two times for credit.			May be taken two times for credit.		
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.			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 226	ALTERNATE CREDIT: ADVANCED READING & COMPOSITION	5 Units	ESL 247	ALTERNATIVE CREDIT: INTERMEDIATE READING SKILLS	5 Units
Advisory: Pass/No Pass			Advisory: Pass/No Pass		
Five hours lecture, one hour laboratory.			Five hours lecture, one hour lab		
May be taken two times for credit.			May be taken two times for credit.		
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.			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 234	ALTERNATE CREDIT: FUNDAMENTALS OF ENGLISH	10 Units	ESL 255	ALTERNATIVE CREDIT: DEVELOPING LISTENING/SPEAKING SKILLS	5 Units
Advisory: Pass/No Pass.			Advisory: Pass/No Pass		
Ten hours lecture, two hours laboratory.			Five hours lecture.		
May be taken two times for credit.			May be taken two times for credit.		
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.			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 236	ALTERNATIVE CREDIT: BASIC GRAMMAR FOR COMMUNICATION	5 Units	ESL 256	ALTERNATE CREDIT: HIGH-INTERMEDIATE GRAMMAR	5 Units
Advisory: Pass/No Pass			Advisory: Pass/No Pass		
Five hours lecture, one lab hour.			Five hours lecture.		
May be taken two times for credit.			May be taken two times for credit.		
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.			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	5 Units	ESL 257	ALTERNATE CREDIT: HIGH-INTERMEDIATE READING SKILLS	5 Units
Advisory: Pass/No Pass			Advisory: Pass/No Pass		
Five hours lecture, one hour laboratory.			Five hours lecture, one hour laboratory.		
May be taken two times for credit.			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.			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	ALTERNATIVE CREDIT: LISTENING/ SPEAKING FOR ACADEMIC PURPOSES	5 Units	HORT 50A	ORIENTATION TO ENVIRONMENTAL HORTICULTURE	4 Units
Advisory: Pass/No Pass			Three and one-half hours lecture, one and one-half hours laboratory.		
Five hours lecture.			Survey of the many facets and component sciences of environmental horticulture.		
May be taken two times for credit.			Exploration of the multitude of career options available in the green industry.		
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.			An introduction to the vocabulary of the environmental sciences including the terminology used in the identification of plants. Foundations of plant science such as plant structure, plant growth, and the environmental needs of plants.		
ESL 266	ALTERNATIVE CREDIT: ADVANCED GRAMMAR	5 Units	HORT 51A	PLANT MATERIALS I	3 Units
Advisory: Pass/No Pass			Advisory: HORT 50A strongly recommended (may be taken concurrently).		
Five hours lecture.			Two hours lecture, three hours laboratory		
May be taken two times for credit.			Identification, taxonomy, habits of growth, cultural and environmental requirements of woody plants grown in California. Emphasis on the use and maintenance of evergreen trees and shrubs in the landscape. Plants are observed in lab, on campus, and at off-site locations.		
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 267	ALTERNATIVE CREDIT: BASIC COMPOSITION SKILLS	5 Units	HORT 51B	PLANT MATERIALS II	3 Units
Advisory: Pass/No Pass			Advisory: HORT 50A strongly recommended (may be taken concurrently).		
Five hours lecture, one hour laboratory.			Two hours lecture, three hours laboratory		
May be taken two times for credit.			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.		
Course is designed to allow students enrolled in ESL 167 to receive credit for mastery of some but not all of the outcomes of ESL 167. Students are required to attend the ESL 167 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 276	ALTERNATIVE CREDIT: APPLIED GRAMMAR & EDITING SKILLS	3 Units	HORT 51C	PLANT MATERIALS: ANNUALS	2 Units
Advisory: Pass/No Pass			Advisory: HORT 50A strongly recommended (may be taken concurrently).		
Three hours lecture.			One hour lecture, three hours laboratory		
May be taken two times for credit.			Identification, taxonomy, habits of growth, cultural and environmental requirements of herbaceous 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.		
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.					
ESL 277	ALTERNATE CREDIT: ADVANCED VOCABULARY DEVELOPMENT FOR READING/WRITING	3 Units	HORT 51D	PLANT MATERIALS: CALIFORNIA NATIVE PLANTS	2 Units
Advisory: Pass/No Pass.			Advisory: HORT 50A strongly recommended (may be taken concurrently).		
Three hours lecture.			One hour lecture, three hours laboratory		
May be taken two times for credit.			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.		
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.					
ENVIRONMENTAL HORTICULTURE & DESIGN			HORT 51E	PLANT MATERIALS: GROUND COVERS & VINES	2 Units
Biological & Health Sciences Division			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 10	ENVIRONMENTAL HORTICULTURE & THE URBAN LANDSCAPE	3 Units	HORT 51F	PLANT MATERIALS: GRASSES, BAMBOOS & PALMS	2 Units
Two and one-half hours lecture, one and one-half hours laboratory.			Advisory: HORT 50A strongly recommended (may be taken concurrently).		
Environmental horticulture encompasses the planning, design, construction, and management of the urban landscape. Relevant topics include ecosystem restoration and management, landscape ecology, sustainable landscape and garden management, sustainable use of natural resources, urban horticulture, and urban landscape design.			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	HORT 52E	HORTICULTURAL PRACTICES: GREENHOUSE & NURSERY MANAGEMENT	3 Units
	Advisory: HORT 50A strongly recommended (may be taken concurrently). One hour lecture, three hours laboratory.			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 interior and tropical plants. Emphasis on the use and maintenance 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.			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 51H	PLANT MATERIALS: PERENNIALS	2 Units	HORT 52F	HORTICULTURAL PRACTICES: INTERIORSCAPING	3 Units
	Advisory: HORT 50A strongly recommended (may be taken concurrently). One hour lecture, three hours laboratory.			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 herbaceous plants grown in California. Emphasis on the use and maintenance of perennial plants with significant features such as flower and foliage displays. Plants are observed in lab, on campus, and at off-site locations.			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 51J	PLANT MATERIALS: CACTI & SUCCULENTS	2 Units	HORT 52G	HORTICULTURAL PRACTICES: TURFGRASS MANAGEMENT	3 Units
	Advisory: HORT 50A strongly recommended (may be taken concurrently). One hour lecture, three hours laboratory.			Two hours 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.			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 52A	HORTICULTURAL PRACTICES: SOILS	3 Units	HORT 52H	HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT	3 Units
	Advisory: HORT 50A recommended (may be taken concurrently). Two hours lecture, three hours laboratory.			Advisory: HORT 50A strongly 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.			Problems of and control solutions for diseases, insects, and weeds in landscapes and gardens. Ecologically based Integrated Pest Management (IPM) practices for handling plant pathogens, insect infestations, and unwanted vegetation. Emphasis on identification, life cycles, and symptoms of diseases, insects, and weeds.	
HORT 52B	HORTICULTURAL PRACTICES: PLANT PROPAGATION	3 Units	HORT 54A	LANDSCAPE CONSTRUCTION: GENERAL PRACTICES	4 Units
	Advisory: HORT 50A strongly recommended (may be taken concurrently). Two hours lecture, three hours laboratory.			Three 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.			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 hardscape applications including paving, walls, decks, and fences. Review of safety practices, careers in landscape construction, and contractor licensing.	
HORT 52C	HORTICULTURE PRACTICES: PLANT INSTALLATION & MAINTENANCE	3 Units	HORT 54B	LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES	3 Units
	Two hours lecture, three hours laboratory.			Two and one-half hours lecture, one and one-half hours lab.	
	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.			Technical aspects of landscape construction projects. Landscape surveying and grading techniques, surface and subsurface hydraulics, 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 52D	HORTICULTURAL PRACTICES: BIOTECHNOLOGY & MICRO-PROPAGATION	3 Units	HORT 54C	LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES	3 Units
	Advisory: HORT 50A or BIOL 10 strongly recommended. Two hours lecture, three hours laboratory.			Two and one-half hours lecture, one and one-half 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).			Methods and materials used 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	2 Units	HORT 60E	LANDSCAPE DESIGN: COMPUTER APPLICATIONS	3 Units	
Advisory: HORT 54A strongly recommended.	One hour lecture, three hours laboratory. May be taken three times for credit.		Advisory: HORT 60A and a basic understanding of the operation of computers is strongly recommended.	Two hours 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.	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 55A	GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES	3 Units	HORT 60F	LANDSCAPE DESIGN: PROCESS	3 Units	
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.	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 55B	GREEN INDUSTRY MANAGEMENT: EMPLOYEE PRACTICES	3 Units	HORT 80	ENVIRONMENTAL HORTICULTURE SKILLS	2 Units	
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.	Six hours laboratory.	May be taken four times for credit.	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 60A	LANDSCAPE DESIGN: GRAPHIC COMMUNICATION	3 Units	HORT 90A	CONTAINER PLANTINGS IN THE LANDSCAPE	1 Unit	
Two 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.	Three-quarters hour lecture, one-half hour laboratory.	May be taken five times for credit.	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 60B	LANDSCAPE DESIGN: THEORY	3 Units	HORT 90B	ENVIRONMENTAL HORTICULTURE CAREERS	1 Unit	
Advisory: HORT 60A and/or drafting skills strongly recommended.	Two hours lecture, three hours laboratory.	Three-quarters hour lecture, one-half hour laboratory.	May be taken five times for credit.	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 60C	LANDSCAPE DESIGN: IRRIGATION	3 Units	HORT 90C	GARDEN PONDS & WATER FEATURES	1 Unit	
Advisory: HORT 54C strongly recommended.	Two and one-half hours lecture, one and one-half hours laboratory.	Three-quarters hour lecture, one-half hour laboratory.	May be taken five times for credit.	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 60D	LANDSCAPE DESIGN: PLANTING	3 Units	HORT 90D	HERBS: IDENTIFICATION, USE & FOLKLORE	1 Unit	
Advisory: HORT 60A & 60B, or equivalent, strongly recommended.	Two hours lecture, three hours laboratory.	Three-quarters hour lecture, one-half hour laboratory.	May be taken five times for credit.	An introductory look at the use and folklore of herbs grown for specific cultural purposes. Herbs noted for their culinary, aromatic, or medicinal properties.		
HORT 90E	HORTICULTURAL & LANDSCAPE PHOTOGRAPHY	1 Unit	HORT 90E	HORTICULTURAL & LANDSCAPE PHOTOGRAPHY	1 Unit	
Three-quarters hour lecture, one-half hour 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.	Three-quarters hour lecture, one-half hour laboratory.	May be taken five times for credit.	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.		

HORT 90F LANDSCAPE DESIGN: BASIC PRINCIPLES 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.	HORT 90P PRUNING: BASIC SKILLS 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.
HORT 90G LANDSCAPE DESIGN FORUM 1 Unit Three-quarters hour lecture, one-half hour laboratory May be taken five times for credit. 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.	HORT 90Q RESIDENTIAL IRRIGATION SYSTEMS 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.
HORT 90H LANDSCAPE LIGHTING 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.	HORT 90R SEASONAL FLORAL DESIGN 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.
HORT 90I LANDSCAPE SUSTAINABILITY PRACTICES 1 Unit Three-quarters hour lecture, one-half hour laboratory May be taken five times for credit. 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.	HORT 90S TECHNOLOGY UPDATE ON INSECT PEST MANAGEMENT FOR PEST CONTROL ADVISORS (PCA) 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.
HORT 90J LANDSCAPE TOOLS & EQUIPMENT 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.	HORT 90T GARDENS OF THE RENAISSANCE 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. Course examines the design and cultural legacies of Renaissance gardens. Specifically explores the development of Renaissance gardens in Italy, France, Germany, Austria, and England. Overview of hard and soft-scape theory as applied to Renaissance gardens.
HORT 90K LANDSCAPING WITH EDIBLES 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.	HORT 90U LANDSCAPE DESIGN: PERSPECTIVE SKETCHING 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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 hardscape.
HORT 90L PLANT PROPAGATION: BASIC SKILLS 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.	HORT 90W WATER FEATURES IN EUROPEAN GARDENS 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.
HORT 90M PLANT NUTRITION & FERTILIZATION 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.	HORT 90X XERISCAPING: CREATING WATER-CONSERVING LANDSCAPES 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. 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.
HORT 90N PLANT MATERIALS: FALL COLOR 1 Unit Three-quarters hour lecture, one-half hour laboratory. May be taken five times for credit. Identification, taxonomy, habits of growth, cultural and environmental requirements of plants which exhibit noticeable fall color. Color characteristics includes stems, foliage, flowers, and fruit. Plants are observed in lab, on campus, and at off-site locations.	

FASHION MERCHANDISING

Business & Social Sciences Division

(650) 949-7322
www.foothill.edu/bss/

FASH 50	INTRODUCTION TO FASHION MERCHANDISING	4 Units
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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.

FILM/TELEVISION

See Video Arts.

FINE ARTS

Fine Arts & Communications Division	(650) 949-7344 www.foothill.edu/fa/
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F A 1	INTRODUCTION TO POPULAR CULTURE	4 Units
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Four hours lecture

Overview of popular culture (music, advertising, film, television, sports, etc.) as a window for understanding contemporary American society. Theories and methods of analyzing the artifacts of popular culture. Overarching themes: 1) the sources of popular culture; 2) the relationship between a commodity culture and intellect/artistry; 3) popular culture and indoctrination/social control.

F A 30	FINE ARTS TOPICS	1 Unit
F A 30X		2 Units
F A 30Y		3 Units
F A 30Z		4 Units

One hour lecture for each unit of credit.

May be taken for six units of credit.

A topical introductory course in any fine arts academic discipline or related field. Specific courses and subject matter vary from quarter to quarter. Supervised and assigned by the division dean.

F A 34	HONORS INSTITUTE SEMINAR IN FINE ARTS	1 Unit
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Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in fine arts.

F A 150	FINE ARTS LABORATORY	.5 Unit
F A 150X		1 Unit
F A 150Y		1.5 Units
F A 150Z		2 Units

Three hours laboratory for each unit of credit.

May be taken for 12 units of credit.

Supervised activities in fine arts, related to skills and materials of other fine arts courses in which students are currently enrolled.

F A 190	DIRECTED STUDY	.5 Unit
F A 190X		1 Unit
F A 190Y		1.5 Units
F A 190Z		2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.

May be taken six times for 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.

F A 191	WRITING/COMMUNICATION	.5 Unit
F A 191X	ACROSS THE CURRICULUM	1 Unit
F A 191Y	FOR FINE ARTS	1.5 Units
F A 191Z		2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.

May be taken six times for credit.

For students who desire additional help in attaining improved writing and speaking abilities in specific fine arts disciplines.

FRENCH

Language Arts Division	(650) 949-7250 www.foothill.edu/la/
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FREN 1	ELEMENTARY FRENCH	5 Units
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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. Language laboratory practice to reinforce pronunciation grammar and syntax. [CAN FREN 1; FREN 1 & 2 = CAN FREN 2; FREN 1 & 2 & 3 = CAN FREN SEQ A]

FREN 2	ELEMENTARY FRENCH	5 Units
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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 3; FREN 1 & 2 = CAN FREN 2; FREN 1 & 2 & 3 = CAN FREN SEQ A]

FREN 3	ELEMENTARY FRENCH	5 Units
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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 5; FREN 1 & 2 & 3 = CAN FREN SEQ A]

FREN 4	INTERMEDIATE FRENCH	5 Units
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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; FREN 4 & 5 & 6 = CAN FREN SEQ B]

FREN 5	INTERMEDIATE FRENCH	5 Units
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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; FREN 4 & 5 & 6 = CAN FREN SEQ B]

FREN 6	INTERMEDIATE FRENCH	5 Units
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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; FREN 4 & 5 & 6 = CAN FREN SEQ B]

FREN 13A	INTERMEDIATE CONVERSATION I	3 Units	FREN 36	SPECIAL PROJECTS IN FRENCH	1 Unit
Prerequisite: FREN 3.			FREN 36X		2 Units
Advisory: May be taken concurrently with FREN 4.			FREN 36Y		3 Units
Three hours lecture, one hour laboratory.			FREN 36Z		4 Units
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.			Prerequisite: FREN 5.		
FREN 13B	INTERMEDIATE CONVERSATION II	3 Units	Advisory: Enrollment for this course is available in the Language Arts Division Office.		
Prerequisite: FREN 13A			One hour lecture for each unit of credit.		
Advisory: May be taken concurrently with FREN 4.			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.		
Three hours lecture, one hour laboratory.					
Continuation of FREN 13A. Conversation course designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary used to express opinions and feelings, and comprehension of discourse on familiar topics with limited context.					
FREN 14A	ADVANCED CONVERSATION I	3 Units	FREN 39	CONTEMPORARY FRANCOPHONE LITERATURE IN TRANSLATION	4 Units
Prerequisite: FREN 3 or high school equivalent.			Advisory: Eligibility for ENGL 1A or equivalent recommended.		
Advisory: May be taken concurrently with FREN 5.			Four hours lecture.		
Three hours lecture, one hour laboratory.			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.		
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	FREN 190	DIRECTED STUDY	.5 Unit
Prerequisite: FREN 14A.			FREN 190X		1 Unit
Advisory: May be taken concurrently with FREN 6.			FREN 190Y		1.5 Units
Three hours lecture, one hour laboratory.			FREN 190Z		2 Units
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.			Advisory: Pass/No Pass.		
FREN 25A	ADVANCED COMPOSITION & READING	4 Units	Half hour lecture of individualized instruction for each .5 unit.		
Prerequisite: FREN 6.			May be taken six times for credit.		
Four hours lecture.			For students who desire or require additional help in attaining comprehension and competency in learning skills.		
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	GEOGRAPHY		
Prerequisite: Membership in the Honors Institute.			Business & Social Sciences Division	(650) 949-7322	
One hour lecture.				www.foothill.edu/bss/	
A seminar in directed readings, discussions, and projects in French. Specific topics to be determined by the instructor.					
			GEOG 1	PHYSICAL GEOGRAPHY	5 Units
			Five hours lecture, one hour Lab.		
			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. [CAN GEOG 6]		
			GEOG 2	HUMAN GEOGRAPHY	4 Units
			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	GEOG 58	REMOTE SENSING & DIGITAL IMAGE PROCESSING	2 Units
Four hours lecture.			One hour lecture, three hours laboratory.		
	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.			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 12	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)	4 Units	GEOG 59	CARTOGRAPHY, MAP PRESENTATION & DESIGN	2 Units
Three hours lecture, three hours laboratory.			One hour 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.			Map projections, geodes, coordinate systems. Map composition. Selection of colors and symbols.	
GEOG 34	HONORS INSTITUTE SEMINAR IN GEOGRAPHY	1 Unit	GEOG 90A	INTRODUCTION TO GIS FOR K-12 TEACHERS I: FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS SCIENCE	1 Unit
Prerequisite: Membership in the Honors Institute.			One hour lecture.		
	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 35	DEPARTMENT HONORS PROJECTS IN GEOGRAPHY	1 Unit	GEOG 90B	INTRODUCTION TO GIS FOR K-12 TEACHERS II: UTILIZING SPATIAL DATA & DATA ANALYSIS IN THE CLASSROOM	1 Unit
One hour lecture.			One hour lecture.		
	May be taken six times for credit.			Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Georeferencing and Global Positioning Systems (GPS). Discussion and analysis of uncertainty propagation within a GIS. Applications of quantitative and statistical spatial analytical methods; modeling with GIS in the classroom. Helping students formulate geo-spatial questions.	
GEOG 36	SPECIAL PROJECTS IN GEOGRAPHY	1 Unit	GEOG 90C	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR K-12 TEACHERS III: DESIGNING & IMPLEMENTING A GIS	1 Unit
GEOG 36X		2 Units	One hour lecture.		
GEOG 36Y		3 Units		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 36Z		4 Units	GEOG 91	CALIFORNIA'S WHITE WATER GEOGRAPHY	3 Units
One hour lecture for each unit of credit.			Three hours lecture.		
	May be taken for a maximum of six units.			Examination and analysis of physical and cultural aspects of California's rivers including recreation, geographic distribution, management and mandates, equipment evolution, and rapid growth of whitewater sports from the mid-19th century to the present.	
	Advanced readings, research, and/or project in geography. Specific topics determined in consultation with instructor.		GEOG 92	CALIFORNIA'S WHITE WATER GEOGRAPHY FIELD STUDY	1 Unit
GEOG 52	ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS)	4 Units	One hour lecture.		
Three hours lecture, three hours laboratory.				Prerequisite: GEOG 91, may be taken concurrently.	
	Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Data acquisition using GPS, digitizing and scanning techniques. Data management. Editing and verifying. Raster data manipulation and importing. Database management. Advanced queries and database manipulation.			One hour lecture.	
GEOG 54A	SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS	2 Units			
Two hours lecture.			View, discuss, and experience relevant aspects of California's rivers first hand through travel and use of specialized whitewater equipment. Field trip costs borne by students.		
	May be taken two times for credit.				
	Seminar on the diverse applications of Geographic Information Systems (GIS). Weekly presentations by guest speakers.		GEOG 100A	INTRODUCTION TO ARC VIEW GIS	.5 Unit
GEOG 54B	SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS	2 Units	One-half hour lecture.		
Corequisite: GEOG 54A must be taken concurrently.				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.	
	Six hours laboratory.				
	Students undertake an original GIS project of their choosing under guidance of the instructor.				
GEOG 56	INTRODUCTION TO SPATIAL ANALYSIS	2 Units			
Two hours lecture.					
	Introduction to spatial analysis. Deriving topology from Digital Elevation Models (DEM), view sheds, shaded relief, irradiance. Introductory spatial statistics, error propagation, regionalized variable theory and kriging.				

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

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GEOG 100B	INTRODUCTION TO GEO MEDIA & GEO MEDIA PRO	.5 Unit	GEOL 36	SPECIAL PROJECTS IN GEOLOGY	1 Unit				
			GEOL 36X		2 Units				
			GEOL 36Y		3 Units				
One-half hour lecture		Prerequisite: GEOL 11.							
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.		Three hours laboratory for each unit of credit.							
GEOLOGY									
Physical Sciences, Mathematics & Engineering Division (650) 949-7259 www.foothill.edu/bss/									
GEOL 3	GEOLOGY OF THE NATIONAL PARK	4 Units	GEOL 45A	EXCURSIONS IN GEOLOGY: LASSEN VOLCANIC NATIONAL PARK	1 Unit				
Three hours lecture, one hour lecture/discussion, one hour field trip.		Prerequisite: GEOL 3 or 10, or equivalent experience.							
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.		Three hours field trip.							
GEOL 10	INTRODUCTORY GEOSCIENCE	5 Units	GEOL 45B	EXCURSIONS IN GEOLOGY: YOSEMITE NATIONAL PARK	1 Unit				
Four hours lecture, one hour instruction for laboratory, two hours laboratory, one hour field trip.		Prerequisite: GEOL 3 or 10, or equivalent experience.							
An introduction to geoscience, from the perspective of natural disasters and portrayal in popular culture. Focus on the relevance of 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]		Three hours field trip.							
GEOL 11	EVOLUTION OF THE EARTH	5 Units	GEOL 45C	EXCURSIONS IN GEOLOGY: HOLLISTER & PINNACLES NATIONAL MONUMENT	1 Unit				
Prerequisite: GEOL 10.		Prerequisite: GEOL 3 or 10, or equivalent experience.							
Four hours lecture, one hour instruction for laboratory, two hours laboratory, two hours field trip.		Three 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]		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 22	PLANETARY GEOLOGY	3 Units	GEOL 45D	EXCURSIONS IN GEOLOGY: OWENS VALLEY & EASTERN SIERRAS	1 Unit				
Advisory: GEOL 10 recommended.		Prerequisite: GEOL 3 or 10, or equivalent experience.							
Two hours lecture, two hours lecture-laboratory, one hour field trip.		Three hours 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.		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 25	TECTONICS	3 Units	GEOL 45E	EXCURSIONS IN GEOLOGY: NORTH COAST, POINT REYES NATIONAL SEASHORE & SAN ANDREAS FAULT ZONE	1 Unit				
Advisory: GEOL 10 recommended.		Prerequisite: GEOL 3 or 10, or equivalent experience.							
Two hours lecture, two hours laboratory, two hours field trip.		Three 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.		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 34	HONORS INSTITUTE SEMINAR IN GEOLOGY	1 Unit	GEOL 49A	GEOLOGIC EXPEDITIONS: DEATH VALLEY & COLORADO PLATEAU	3 Units				
Prerequisite: Membership in the Honors Institute.		Prerequisite: GEOL 3 or 10, or equivalent experience.							
One hour lecture.		One hour instruction for laboratory, one hour laboratory, seven hours field trip.							
A seminar in directed readings, discussions and projects in geology. Specific topics to be determined by the instructor.		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.							

GERMAN

Language Arts Division

(650) 949-7442
www.foothill.edu/la/

GERM 1 ELEMENTARY GERMAN

5 Units

Five hours lecture, two hours laboratory.

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; GERM 1 & 2 & 3 = CAN GERM SEQ A]**

GERM 2 ELEMENTARY GERMAN

5 Units

Prerequisite: GERM 1 or one year of high school German.

Five hours lecture, two hours laboratory.

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; GERM 1 & 2 & 3 = CAN GERM SEQ A]**

GERM 3 ELEMENTARY GERMAN

5 Units

Prerequisite: GERM 2 or two years of high school German.

Five hours lecture, two hours laboratory.

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; GERM 1 & 2 & 3 = CAN GERM SEQ A]**

GERM 4 INTERMEDIATE GERMAN

5 Units

Prerequisite: GERM 3 or three years high school German.

Five hours lecture, one hour laboratory.

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]**

GERM 5 INTERMEDIATE GERMAN

5 Units

Prerequisite: GERM 4 or four years of high school German..

Five hours lecture, one hour laboratory.

Continued introduction to reading German literature. Recycling 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.

GERM 6 INTERMEDIATE GERMAN

5 Units

Prerequisite: GERM 5.

Five hours lecture, one hour laboratory.

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 11]**

GERM 8 POSTWORLD WAR II GERMANY

4 Units

Advisory: Eligibility for ENGL 1A recommended. Not open to students with credit in POLI 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.

GERM 13A INTERMEDIATE CONVERSATION I

3 Units

Prerequisite: GERM 3.

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.

GERM 13B INTERMEDIATE CONVERSATION II

3 Units

Prerequisite: GERM 13A.

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.

GERM 14A ADVANCED CONVERSATION I

3 Units

Prerequisite: GERM 13B.

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.

GERM 14B ADVANCED CONVERSATION II

3 Units

Prerequisite: GERM 14A.

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.

GERM 25A ADVANCED COMPOSITION & READING

4 Units

Prerequisite: GERM 6.

Four hours lecture.

Extensive reading and analysis of texts and literature as exponents of the culture and history of German-speaking countries with emphasis on the short story. Intensive discussions about the readings in class as well as compositions and advanced grammar.

GERM 25B ADVANCED COMPOSITION & READING

4 Units

Prerequisite: GERM 25A.

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.

GERM 34 HONORS INSTITUTE SEMINAR IN GERMAN

1 Unit

Prerequisite: Membership in the Honors Institute.

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.

GERM 36 SPECIAL PROJECTS IN GERMAN

1 Unit

GERM 36X 2 Units

GERM 36Y 3 Units

GERM 36Z 4 Units

Prerequisite: GERM 6.

One hour lecture for each unit of credit.

A study oriented toward spoken and/or written practice in German. 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.

GERM 39	GERMAN LITERATURE IN TRANSLATION	4 Units	GID 44	BEGINNING RELIEF PRINTMAKING	3 Units	
Advisory: Eligibility for ENGL 1A recommended.						
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.						
GRAPHIC & INTERACTIVE DESIGN						
Fine Arts & Communications Division	(650) 949-7272		GID 46	BEGINNING SCREENPRINTING	3 Units	
	www.foothill.edu/graphicdesign/		Formerly: GRDS 39A			
GID 1	HISTORY OF GRAPHIC DESIGN	4 Units	Advisory: Art 4A or Art 5A. Not open to students with credit in ART 39A.			
Formerly: GRDS 36						
Advisory: Not open to students with credit in ART 36.						
Four hours lecture, one hour laboratory						
A study of the development and interpretation of visual communication in fine 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.						
GID 20	DIGITAL VIDEO PRODUCTION I	4 Units	GID 48	MONOPRINTING	3 Units	
Formerly: GRDS 20						
Advisory: Not open to students with credit in VART 20.						
Two and one-half hours lecture, three hours lecture-laboratory, one hour laboratory.						
Basic instruction in concepts, techniques, and strategies of small-format video production and post-production. Basic lighting, sound recording, and editing will be covered through technical workshops. Emphasis on video story telling, editing and creative problem solving.						
GID 38	PRINTMAKING I	4 Units	GID 50	GRAPHIC DESIGN STUDIO I	4 Units	
Formerly: GRDS 69						
Advisory: ART 4A and ART 5A recommended.						
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	GID 51	GRAPHIC DESIGN STUDIO II	4 Units	
Prerequisite: GID 38.						
Two hours lecture, two hours lecture/laboratory, three hours laboratory.						
May be taken six times for credit.						
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	GID 52	GRAPHIC DESIGN STUDIO III	4 Units	
Formerly: GRDS 71						
Advisory: ART 56 or GID 74 recommended.						
Two hours lecture, two hours lecture/laboratory, two hours laboratory.						
May be taken three times for credit.						
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	GID 54	TYPOGRAPHY	4 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 56	WEB SITE DESIGN	4 Units	Formerly: GRDS 94			
Advisory: GID 50 and proficiency using Dreamweaver, Illustrator and Photoshop software recommended.						
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
<i>Formerly: GRDS 50</i>		
Advisory: Not open to students with credit in PHOT 67 and 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	SERVICE LEARNING PROJECTS	4 Units
<i>Formerly: GRDS 83</i>		
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	PORTFOLIO	4 Units
<i>Formerly: GRDS 77</i>		
Advisory: Completion of entry level design and software courses recommended.		
Six hours lecture/laboratory, three hours laboratory.		
May be taken three times for credit.		
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 70	GRAPHIC DESIGN DRAWING	4 Units
<i>Formerly: GRDS 60</i>		
Two 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
<i>Formerly: GRDS 76</i>		
Advisory: GID 70 recommended.		
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
<i>Formerly: GRDS 73A</i>		
Two hours lecture, two hours lecture-laboratory, three hours laboratory.		
May be repeated for a maximum of 12 units for credit.		
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
<i>Formerly: GRDS 56</i>		
Advisory: Familiarity with computer operating systems, ART 4A or GID 70; ART 5A; PHOT 1 recommended. 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
<i>Formerly: GRDS 90</i>		
Advisory: ART 4A or GID 70 recommended. GID 74 or familiarity with painting and drawing software recommended.		
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
<i>Formerly: GRDS 86</i>		
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
<i>Formerly: GRDS 87</i>		
Advisory: GID 80, or ART 88, or MUS 86, or DRAMA 86, or VART 86. 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
<i>Formerly: GRDS 96</i>		
Two hours Lecture, two hours lecture-laboratory, two hours laboratory.		
May be taken three times for credit.		
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.		
Advisory: 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
<i>Formerly: GRDS 40</i>		
Advisory: GID 50 and GID 74 recommended.		
Two hours lecture, two hours lecture/laboratory, two hours laboratory.		
May be taken three times for credit.		
Studio practice in letterpress printing to create limited-edition prints and books. Introduction to 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 150	BOOK ARTS ACTIVITIES	.5 Unit
GID 150X		1 Unit
GID 150Y		2 Units
GID 150Z		4 Units
<i>Formerly: GRDS 150</i>		
One hour lecture-laboratory for each one-half unit of credit.		
May be taken for a maximum of 24 units of credit.		
Activities in the book arts. Specific topics to be determined by the instructor.		

HEALTH

Biological & Health Sciences Division

(650) 949-7249

www.foothill.edu/bio/

HLTH 5 EMERGENCY RESPONSE

5 Units

Four hours lecture, three hours laboratory.

May be taken three times for credit.

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 CPR for the professional rescuer. 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.

HLTH 75 CARDIOPULMONARY RESUSCITATION

.5 Unit

One hour lecture-laboratory.

Introduction to the principles and techniques of cardiopulmonary resuscitation. Basic life support that consists of the recognition of respiratory and/or cardiac arrest and the proper application of artificial ventilation and circulation. Red Cross certification card is issued upon satisfactory completion of the course.

HLTH 120 HEALTH EDUCATION & LIVING SKILLS FOR YOUTH

3 Units

Prerequisite: Completion of seventh grade and recommendation of school principle

Three hours lecture.

Use of issues of relationships to explore the topics of mental health, sexual health, assertiveness skills, romance and conflict resolution. Other topics include stress- and self-management; relationship of nutrition, exercise, sleep, and sports to health; epidemiology of communicable disease; and physiology of drug use.

HLTH 190 DIRECTED STUDY

.5 Unit

HLTH 190X

1 Unit

HLTH 190Y

1.5 Units

HLTH 190Z

2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.

May be taken six times for credit.

For students who desire or require additional help in attaining comprehension and competency in learning skills.

HEBREW

Language Arts Division

(650) 949-7249

www.foothill.edu/la/

HEBR 1 ELEMENTARY HEBREW

5 Units

Five hours lecture, two hours laboratory.

Intensive oral practice of basic, everyday language functions. Readings and written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax.

HEBR 2 ELEMENTARY HEBREW

5 Units

Five hours lecture, one hour laboratory.

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.

HEBR 3 ELEMENTARY HEBREW

5 Units

Prerequisite: HEBR 2 or two years of high school Hebrew.

Five hours lecture, two hours laboratory.

Continuation and further development of material presented in Hebrew 2. Intensive oral and written practice broadening the functions presented in Hebrew 2. Greater emphasis on communicative activities. Written practice to further understanding of the underlying grammatical and syntactical structures. Language Laboratory practice to reinforce pronunciation, grammar, and syntax.

HISTORY

Business & Social Sciences Division

(650) 949-7322

www.foothill.edu/bss/

HIST 4A HISTORY OF WESTERN CIVILIZATION

4 Units

Four hours lecture.

Survey of the development of Western culture and civilization in the ancient world. From the beginnings to the fall of Rome. [HIST 4A & 4B = CAN HIST 2; HIST 4A & 4B & 4C = CAN HIST SEQ A]

HIST 4B HISTORY OF WESTERN CIVILIZATION

4 Units

Four hours lecture.

Survey of the development of Western society and culture from the fall of Rome 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. [HIST 4A & 4B = CAN HIST 2; HIST 4A & 4B & 4C = CAN HIST SEQ A]

HIST 4C 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. [HIST 4A & 4B & 4C = CAN HIST SEQ A]

HIST 8 HISTORY OF LATIN AMERICA

4 Units

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.

HIST 9 HISTORY OF CONTEMPORARY EUROPE

4 Units

Four hours lecture.

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.

HIST 10 HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE

4 Units

Four hours lecture.

Economic, social, intellectual and political development of multicultural California. 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. Includes field trips, cultural events, films and book review.

HIST 15	HISTORY OF MEXICO	4 Units	HIST 30	WAR & PEACE IN THE 20th & 21st CENTURY	4 Units
Four hours lecture.			Formerly HIST 52.		
Pre-Columbian civilizations, the Spanish conquest, and development of Mexico since independence; evolution of political, economic and social institutions.			Four hours lecture.		
HIST 16	INTRODUCTION TO ANCIENT ROME	4 Units	Perspectives of peace studies. Comprehensive study of the social ecology of peace and national security. Problems of seeking peace in a nuclear age. Effects of nuclear weapons on ecosystems and human victims. Interrelationship between weapons technology, national security, arms control and major power relationships. Relationship of societal institutions to the quest for peace. Offers avenues for citizen participation in decision making on peace related issues.		
Advisory: HIST 4A or equivalent recommended.			HIST 34		HONORS INSTITUTE SEMINAR IN HISTORY
Four hours lecture.			1 Unit		
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.			Prerequisite: Membership in the Honors Institute.		
HIST 17A	HISTORY OF THE UNITED STATES TO 1877	5 Units	One hour lecture.		
Five hours lecture.			A seminar in directed readings, discussions and projects in history. Specific topics to be determined by the instructor.		
American civilization through 1877. Survey of United States history. Political, economic and social development. [CAN HIST 8; HIST 17A & 17B = CAN HIST SEQ B]					
HIST 17B	HISTORY OF THE UNITED STATES FROM 1877	5 Units	HIST 35	DEPARTMENT HONORS PROJECTS IN HISTORY	1 Unit
Five hours lecture.			HIST 35X		2 Units
American civilization from 1877 through the present. Survey of United States history and its political, economic and social development. [CAN HIST 10; HIST 17A & 17B = CAN HIST SEQ B]			HIST 35Y		3 Units
			HIST 35Z		4 Units
Four hours lecture.			One hour lecture for each unit of credit.		
Civilization 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.			May be taken for a maximum of six units.		
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	4 Units	Seminar in historical readings, research, critical techniques and practice. Specific topics vary.		
Four hours lecture.			HIST 36	SPECIAL PROJECTS IN HISTORY	1 Unit
Political, social and economic development of China and Japan. Emphasis on impact of Western culture and problems of political and economic modernization.			HIST 36X		2 Units
HIST 19	HISTORY OF ASIA: CHINA/JAPAN	4 Units	HIST 36Y		3 Units
Four hours lecture.			HIST 36Z		4 Units
			One hour lecture for each unit of credit.		
			May be taken for a maximum of six units.		
Advanced readings, research and/or project in history. Specific topics determined in consultation with instructor.					
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION	4 Units	HUMAN PERFORMANCE		
Four hours lecture.					
Russian political and social development from the 10th century to present. Emphasis on post-revolutionary Russia and problems of authoritarian modernization, independence, political and economic integration and industrialization.			Physical Education/Athletics Division		(650) 949-7222
HIST 23A	INTRODUCTION TO AFRICAN HISTORY TO 1800	4 Units	www.foothill.edu/ath/		
Four hours lecture.					
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.			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.					
HIST 24	20th CENTURY AMERICAN FOREIGN POLICY	4 Units	H P 2X	LIFETIME FITNESS	1 Unit
Not open to students with credit in POLI 24.			H P 2Y		2 Units
Four hours lecture			H P 2Z		3 Units
Analysis of American foreign policy from 1898 to the present, emphasizing the relationship between policy-making, American national interest, and the American people.			Three hours of laboratory for each unit of credit.		
			Any combination of HP 2X, 2Y, 2Z may be taken six times for credit.		
			Exercise, physical and recreational activities are used to promote health benefits, develop fitness and enhance performance		
			H P 3B	FUNCTIONAL FITNESS FOR LIFE	1 Unit
			Three hours laboratory		
			May be taken six times for credit.		
			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	H P 11	BEGINNING SPRINGBOARD DIVING	1 Unit
Three hours laboratory.		Three hours laboratory.		May be taken six times for credit.	
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.		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 4	ATHLETIC OFFICIATING	3 Units	H P 12	LIFEGUARD TRAINING	4 Units
Two hours lecture, three hours laboratory.		Three hours lecture, three hours laboratory.		May be taken six times for credit.	
Rules and mechanics of officiating interscholastic, intercollegiate and professional athletics.		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 5	WATER SAFETY INSTRUCTOR	4 Units	H P 13	MASTER'S SWIMMING/ADVANCED SWIM TRAINING	2 Units
Three hours lecture, three hours laboratory.		Six hours laboratory.		May be taken six times for credit.	
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.		Advanced program of swim strokes, competitive turns and endurance training.			
H P 8A	INTERMEDIATE/ADVANCED WATER POLO	1 Unit	H P 14B	STEP AEROBICS	1 Unit
Four hours laboratory.		Three hours laboratory.		Any combination of aerobics courses may be taken six times for credit.	
Any combination of water polo courses may be taken six times for credit.		An introduction to step aerobics. Emphasis is placed on developing, maintaining and/or improving flexibility, strength and cardiovascular endurance.			
H P 9	LIFETIME WELLNESS ACTIVITIES	1 Unit	H P 14C	AEROBICS CIRCUIT TRAINING	1 Unit
Three hours laboratory.		Three hours laboratory.		Any combination of aerobics courses may be taken six times for credit.	
May be taken six times for credit.		An introduction to aerobic circuit training. Emphasis is placed on combining strength training and aerobic exercise to develop, maintain, and/or improve flexibility, strength, and cardiovascular endurance.			
H P 9A	EXERCISE PRINCIPLES OF LIFETIME FITNESS	1 Unit	H P 14D	STEP & SCULPT	1 Unit
Four hours laboratory.		Three hours laboratory.		May be taken six times for credit.	
May be taken six times for credit.		Free weights combined with step aerobics used to enhance muscle strength, endurance training and cardiovascular conditioning.			
H P 10	BEGINNING & INTERMEDIATE SWIMMING	1 Unit	H P 14F	CORE FLOW: CARDIO DANCE	1 Unit
Four hours laboratory.		Three hours laboratory.		May be taken six times for credit.	
May be taken six times for credit.		An alternative dance aerobic class designed to free your hips, strengthen your heart and sculpt your body. Integrates strength exercises, sport movement and floor work with emphasis on various dance styles that may include belly, hula, ballet, funk, swing and latin. Students must provide their own fitness mat.			
H P 10B	AQUATIC FITNESS	1 Unit	H P 16	WALK FOR HEALTH	1 Unit
Four hours laboratory.		Three hours laboratory.		May be taken six times for credit.	
May be taken six times for credit.		Introduction to fitness walking. Includes basic principles of exercise and how they relate to fitness walking.			
H P 10BS	AQUATIC FITNESS	.5 Unit	H P 16A	GENERAL CONDITIONING	1 Unit
Two hours laboratory.		Three hours laboratory.		May be taken six times for credit.	
May be taken six times for credit.		Types of running; proper methods, proper techniques; how to start a running awareness only. Predominately a running program for the development of individual fitness.			
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	H P 16B	SKI CONDITIONING	1 Unit
Four hours laboratory.		Four hours laboratory.		Any combination of general conditioning courses may be taken six times for credit.	
May be taken six times for credit.		Course designed to develop physical conditioning level for safe and pleasurable skiing. Exercise will be geared toward developing flexibility, strength and aerobic endurance.			
Aquatic fitness through water exercise. Emphasis on water exercise to develop an individualized fitness program based on personal goals.					

H P 16D	SURVIVOR TRAINING	1 Unit	H P 23	ARCHERY	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Designed for average group exercise participant, the class uses sports fitness drills and functional training to develop footwork, anaerobic and aerobic conditioning, muscular strength and power.			Introduction to the sport of archery. Emphasis will be placed on instinctive shooting, scoring, terminology, safety and etiquette.		
H P 17	HEALTH & FITNESS ACTIVITIES	1 Unit	H P 23A	INDOOR ARCHERY	1 Unit
H P 17W		2 Units	Three hours laboratory.		
H P 17X		3 Units	May be taken six times for credit.		
Three hours laboratory for each unit of credit.			Introduction to the sport of archery. Emphasis will be placed on instinctive shooting, scoring, terminology, safety and etiquette.		
Any combination of HP 17, 17W and 17X may be taken six times for credit.					
Introduces students to a variety of fitness activities used to develop flexibility, strength and cardiovascular conditioning.					
H P 19	WEIGHT TRAINING	1 Unit	H P 24	BADMINTON	1 Unit
Four hours laboratory.			Three hours laboratory.		
Any combination of weight training courses may be taken six times for credit.			May be taken six times for credit.		
A structured training class in the use of weights for strength and fitness.			Introduction to the history, terminology, skills, strategy, and techniques fundamental to badminton.		
H P 19A	BEGINNING WEIGHT TRAINING	1 Unit	H P 24A	TOURNAMENT BADMINTON	1 Unit
Three hours laboratory.			Three hours laboratory.		
A structured training class in the use of weights for strength and fitness.			May be taken six times for credit.		
Training for locally and nationally sanctioned tournaments at an intermediate and advanced level of play.					
H P 19F	CORE FLOW: STRENGTH	1 Unit	H P 25	BEGINNING GOLF	1 Unit
Three hours laboratory.			Four hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
A total body conditioning class that emphasizes intense free weight exercises set to music and incorporates core conditioning. Featured equipment includes dumbbells, body bar, resistance bands, body weight and balls. Students must provide their own fitness mat.			Includes basic rules of the game, terminology, techniques and fundamentals of the swing, knowledge of equipment and course etiquette.		
H P 19S	WEIGHT TRAINING	.5 Unit	H P 25A	INTERMEDIATE GOLF	1 Unit
Two hours laboratory.			Three hours laboratory.		
Any combination of weight training courses may be taken six times for credit.			May be taken six times for credit.		
A program of strength development through the use of barbells, dumbbells and weight machines. Methodology and techniques.			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 21	STRETCHING & FLEXIBILITY	1 Unit	H P 25B	ADVANCED GOLF	1 Unit
Three hours laboratory.			Three hours laboratory.		
Any combination of stretching and flexibility courses may be taken six times for credit.			May be taken six times for credit.		
A stretching program for the development of joint flexibility and muscle suppleness.			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 21C	FUNDAMENTALS OF FLEXIBILITY	1 Unit	H P 25C	TOURNAMENT GOLF	1 Unit
Three hour laboratory			Three hours laboratory for each unit of credit.		
May be taken six times for credit.			May be taken six times for credit.		
A stretching program for the development of joint flexibility and muscle suppleness.			Golf conducted in a tournament format. Includes several types of match play at various municipal courses.		
H P 21D	CORE/FLOW: FLEXIBILITY	1 Unit	H P 25CX	TOURNAMENT GOLF	2 Units
Three hour laboratory.			Three hours laboratory for each unit of credit.		
Course may be taken six times for credit.			May be taken six times for credit.		
An intermediate stretching program combining the most current techniques for core conditioning, intermediate level stretching, and relaxation. Emphasis will be on improving flexibility, balance and breathing. Students must provide their own fitness mat.			Golf conducted in a tournament format. Includes several types of match play at various municipal courses.		
H P 22	HIKING FOR FITNESS	1 Unit	H P 25D	GOLF: ONE-ON-ONE	1 Unit
Three hours laboratory.			Three hours laboratory for each unit of credit.		
May be taken six times for credit.			May be taken six times for credit.		
Hiking in the local foothills as an exercise to reach the appropriate level of sound cardiovascular health for a sustained period of at least 30 to 40 minutes. Will increase stamina, endurance, heart and lung strength.			In-depth analysis of the golf swing using Swing Solutions video instruction technology. Doctor 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 25DX	GOLF: ONE-ON-ONE	2 Units	H P 26C	TOURNAMENT TENNIS	2 Units
Three hours laboratory for each unit of credit.			Six hours laboratory.		
May be taken six times for credit.			Any combination of tennis courses may be taken six times for credit.		
In-depth analysis of the golf swing using Swing Solutions video instruction technology. Dector 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.			Development of skill proficiency by participating in tournament play.		
H P 25DY	GOLF COURSE PLAY	2 Units	H P 27	BASKETBALL	1 Unit
Six hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Introduces students to techniques for managing the game of golf on the course. Pretournament instruction clinics on the rules of the game and advanced/intermediate golfing skills.			An introduction to the fundamental skills and strategies of the team sport of basketball. Skill work drills and full-court tournament play.		
H P 25E	TOTAL GOLF	1 Unit	H P 27A	ADVANCED TOURNAMENT BASKETBALL	1 Unit
H P 25EX		2 Units	Three hours laboratory.		
Three hours laboratory for each unit of credit.			May be taken six times for credit.		
May be taken six times for credit.			Includes tournament play with an emphasis on team offensive and defensive basketball systems.		
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	H P 27D	INTERMEDIATE BASKETBALL	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Intermediate/advanced individual and group instruction on golf swing skills plus tournament play on local par three courses.			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 25G	ONLINE GOLF SCHOOL	3 Units	H P 28	SLOW PITCH SOFTBALL	1 Unit
Three hours lecture.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Online golf instruction for improvement of mental focus, golf course management and strategy, optimal practice drills and games, pre-season/off-season conditioning, competitive formats, how to establish a USGA handicap, interpretation of USGA rules of golf, how to get recruited to college and much more. Appropriate for the any level player who wants to learn to self-coach, self-correct or coach/teach others.			Coeducational games with instruction in throwing, fielding and hitting.		
H P 25TG	GOLF COURSE EXPERIENCE	2 Units	H P 29	SOCCER	1 Unit
Six hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			Any combination of soccer classes may be taken six times for credit.		
Students will play an 18-hole golf course and utilize the knowledge and skills developed in beginning, intermediate and advanced golf.			Soccer class developing basic skills such as passing, shooting, dribbling and heading. Includes game strategy, tactics, and laws of the game.		
H P 26	BEGINNING TENNIS	1 Unit	H P 29A	INDOOR SOCCER	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			Any combination of soccer classes may be taken six times for credit.		
Introduction to beginning tennis play including basic strokes, drills, rules and etiquette			Introduction in the fundamental skills and strategies for indoor soccer. Includes rules and an opportunity for active participation in game situations.		
H P 26A	INTERMEDIATE/ADVANCED TENNIS	1 Unit	H P 29S	SOCCER	.5 Unit
Three hours laboratory.			One and one-half hour laboratory.		
Any combination of tennis courses may be taken six times for credit.			May be taken six times for credit.		
Intermediate/advanced tennis for competitive play includes covering drills, strategies, techniques and rules.			Designed to develop and to expose the student to the individual techniques of the game of soccer. Small group tactical instruction along with the 17 laws of the game are inclusive in the course. Emphasis will be placed on actual games and participation in five versus five games.		
H P 26B	DOUBLES TENNIS	1 Unit	H P 30	BEGINNING VOLLEYBALL	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Introduction to doubles tennis play. Includes basic court positions, skill drills, and offensive and defensive strategies.			Introduction to the game of volleyball. Includes basic skills, strategy, and team play.		
H P 31	SELF-DEFENSE	1 Unit	H P 30A	INTERMEDIATE/ADVANCED VOLLEYBALL	1 Unit
Three hours laboratory.			Three hours laboratory.		
Any combination of self-defense courses may be taken six times for credit.			May be taken six times for credit.		
A program designed to develop the skill, knowledge, stamina and attitude to defend oneself properly in a variety of situations.			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.		

H P 31A	SELF-DEFENSE FOR WOMEN	1 Unit	H P 32P	CORE FLOW: BALANCE	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Introduction to women's self-defense. Includes skills, psychology, strategy, tactics and conditions for self-protection and rape defense.			This class combines the most current techniques for core conditioning, development of functional strength and flexibility, balance and relaxation. Emphasis will be on correct form, posture and fluid movement. Students must provide their own fitness mat.		
H P 31C	CARDIO KICKBOXING	1 Unit	H P 33	BEGINNING JAZZ DANCE	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken three times for credit.			Any combination of jazz dance classes may be taken six times for credit.		
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.			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.		
H P 32	BEGINNING MODERN DANCE	1 Unit	H P 33A	INTERMEDIATE JAZZ DANCE	1 Unit
Three hours laboratory.			Three hours laboratory.		
Any combination of modern dance classes may be taken six times for credit.			May be taken six times for credit.		
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.			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.		
H P 32A	INTERMEDIATE/ADVANCED MODERN DANCE	1 Unit	H P 33B	SOCIAL DANCE	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
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.			Introduction to social dance techniques. Instruction and practice in Swing, Cha-Cha, Waltz, Fox Trot, Rhumba and Tango dances.		
H P 32B	BEGINNING BALLET	1 Unit	H P 33C	ADVANCED JAZZ DANCE	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Introduction to basic ballet technique and progressions. Includes the fundamentals of barre and center floor exercises.			Technique and performance of advanced jazz dance for the advanced student. Includes preparation of dance routines for a live stage performance.		
H P 32C	INTERMEDIATE/ADVANCED BALLET	1 Unit	H P 33D	INTERMEDIATE/ADVANCED SOCIAL DANCE	1 Unit
Three hours laboratory.			Three hours laboratory.		
Any combination of ballet courses may be taken six times for credit.			May be taken six times for credit.		
The study of theoretical aspects of dance movement including concepts, skills and teaching principles.			Continuation of social dance techniques. Instruction and practice in Swing, Cha-Cha, Waltz, Fox Trot, Rhumba and Tango dances.		
H P 32D	PILATES	1 Unit	H P 34	CHOREOGRAPHY	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Stretching and strengthening exercises to strengthen and tone muscles, improve posture, flexibility and balance for a more streamlined shape.			Exploration of the basic principles and theories of choreography and composition and the tools for defining the creative process.		
H P 32E	INTERMEDIATE PILATES	1 Unit	H P 35B	INTERCOLLEGIATE SOCCER (WOMEN)	3 Units
Three hours laboratory.			Fifteen hours laboratory.		
May be taken six times for credit.			May be taken four times for credit.		
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, Äi functional fitness, Äü. Exercises are mostly standing and require knowledge, experience and proficiency with the Basic Mat exercises.			Competitive intercollegiate soccer working toward personal development, athletic scholarship, and career opportunities.		
H P 32F	BAR BAND BALL-ATES	1 Unit	H P 35C	INTERCOLLEGIATE VOLLEYBALL (WOMEN)	3 Units
Three hours laboratory.			Fifteen hours laboratory.		
May be taken six times for credit.			May be taken four times for credit.		
An intermediate level Pilates and Yoga class designed to give students the opportunity to practice and perfect their skills with the use of props (body bar, resistance bands, over-ball, foam rollers) to build strength, stability, flexibility and vitality. Improve body control, balance, posture and endurance. Students must provide their own fitness mat.			Competitive intercollegiate volleyball working toward personal development, athletic scholarship, and career opportunities.		
H P 35D	INTERCOLLEGIATE BASKETBALL (WOMEN)	3 Units	Fifteen hours lecture/laboratory.		
			May be taken four times for credit.		
			Competitive basketball for women athletes with advanced high school experience.		

H P 35E	INTERCOLLEGIATE TENNIS (WOMEN)	3 Units	H P 39C	ANCHORING FOR ROCK CLIMBING	1 Unit																																																																																	
Fifteen hour lecture/laboratory.			Three hours laboratory.																																																																																			
May be taken four times for credit.			May be taken three times for credit.																																																																																			
Competitive intercollegiate tennis working toward personal development, athletic scholarship, and career opportunities.			Securing rope systems to rock walls with natural and artificial anchors, including runners, nuts, cams, pitons and bolts.																																																																																			
H P 35F	INTERCOLLEGIATE SOFTBALL (WOMEN)	3 Units	H P 39D	INTERMEDIATE MOUNTAINEERING	1 Unit																																																																																	
Fifteen hours lecture/laboratory.			Three hours laboratory.																																																																																			
May be taken four times for credit			Any combination of mountaineering courses may be taken six times for credit.																																																																																			
Competitive intercollegiate softball for experienced athletes.			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 35G	INTERCOLLEGIATE GOLF (WOMEN)	3 Units	H P 39E	INTRODUCTION TO MOUNTAIN GUIDING	3 Units																																																																																	
Fifteen hours lecture/laboratory.			One hour lecture, six hours laboratory.																																																																																			
May be taken four times for credit.			May be taken three times for credit.																																																																																			
A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in competition.			Development of client-centered rapport, leadership and teaching skills appropriate to rock climbing and mountaineering.																																																																																			
H P 35H	INTERCOLLEGIATE SWIMMING (WOMEN)	3 Units	H P 40	INTRODUCTION TO MOUNTAINEERING	2 Units																																																																																	
Fifteen hour lecture/laboratory.			One hour lecture, three hours laboratory.																																																																																			
May be taken four times for credit.			May be taken three times for credit.																																																																																			
Competitive intercollegiate swimming working toward personal development, athletic scholarship, and career opportunities.			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 35K	PRE-SEASON CONDITIONING FOR WOMEN	2 Units	H P 40B	INTERCOLLEGIATE SOCCER (MEN)	3 Units																																																																																	
Six hours lecture/laboratory.			Fifteen hours lecture/ laboratory.																																																																																			
May be taken six times for credit.			May be taken four times for credit.																																																																																			
A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in intercollegiate athletics.			Competitive intercollegiate soccer working toward personal development, athletic scholarship and career opportunities.																																																																																			
H P 36	WRESTLING	1 Unit	H P 40C	INTERCOLLEGIATE FOOTBALL (MEN)	3 Units																																																																																	
Four hours laboratory.			Fifteen hours lecture/laboratory																																																																																			
May be taken six times for credit.			May be taken six times for credit.																																																																																			
Development and practice of the basic wrestling skills. Includes conditioning programs and strategical tactics.			Competitive football for those student athletes who have had high school experience.																																																																																			
H P 37	THEORIES & TECHNIQUES OF COACHING SPORTS	3 Units	H P 40D	INTERCOLLEGIATE BASKETBALL (MEN)	3 Units																																																																																	
Three hours lecture.			Fifteen hour lecture/laboratory.																																																																																			
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.			May be taken four times for credit.																																																																																			
H P 38	AEROBIC INSTRUCTOR TRAINING CERTIFICATION	2 Units	Competitive intercollegiate basketball working toward personal development, athletic scholarship and career opportunities.																																																																																			
Four hours lecture-laboratory.			H P 40E	INTERCOLLEGIATE TENNIS (MEN)	3 Units																																																																																	
Designed 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.			Fifteen hours lecture/laboratory																																																																																			
H P 39	BEGINNING ROCK CLIMBING	1 Unit	Four hours laboratory.			May be taken four times for credit.			Any combination of rock climbing may be taken six times for credit.			Competitive tennis for student athletes who had had extensive high school or club tennis.			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-roping on artificial walls.			H P 40G	INTERCOLLEGIATE GOLF (MEN)	3 Units	H P 39A	INTERMEDIATE ROCK CLIMBING	1 Unit	Fifteen hours lecture/laboratory.			Three hours laboratory.			May be taken four times for credit.			Any combination of rock climbing classes may be taken six times for credit.			Competitive intercollegiate golf working toward skill development, athletic scholarship and career opportunities.			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 40H	INTERCOLLEGIATE SWIMMING (MEN & WOMEN)	3 Units				Fifteen hours lecture/laboratory.						May be taken four times for credit.						Competitive intercollegiate swimming program for student athletes.						H P 40J	INTERCOLLEGIATE TRACK & FIELD (MEN & WOMEN)	3 Units				Fifteen hours lecture/ laboratory.						May be taken four times for credit.						Competitive intercollegiate track and field working toward personal development, athletic scholarship and career opportunities.		
Four hours laboratory.			May be taken four times for credit.																																																																																			
Any combination of rock climbing may be taken six times for credit.			Competitive tennis for student athletes who had had extensive high school or club tennis.																																																																																			
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			Competitive intercollegiate track and field working toward personal development, athletic scholarship and career opportunities.																																																																																			

H P 40K	INTERCOLLEGIATE WATER POLO	3 Units	H P 47C	INTERMEDIATE LINE DANCING	1 Unit
Fifteen hours lecture/laboratory May be taken three times for credit.	Competitive intercollegiate water polo working toward personal development, athletic scholarship and career opportunities.		Three hours laboratory. May be taken six times for credit.		
H P 40L	INTERCOLLEGIATE PRE-SEASON CONDITIONING	2 Units	H P 47D	WORLD DANCE	1 Unit
Six hours lecture/laboratory. May be taken six times for credit.	A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in intercollegiate athletics.		Three hours laboratory. May be taken six times for credit.		
H P 40P	INTERCOLLEGIATE DANCE PERFORMANCE	3 Units	H P 48	CONCEPTS OF PHYSICAL FITNESS & WELLNESS	4 Units
Fifteen hours lecture/laboratory. May be taken six times for credit.	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.		Four hours lecture. Study of physical fitness, training principles, appropriate exercise and health practices with application to lifelong health and exercise habits.		
H P 44	BEGINNING YOGA	1 Unit	H P 49	IN-LINE SKATING	1 Unit
Three hours laboratory. May be taken six times for credit.	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.		Three hours laboratory. May be taken six times for credit.	Introduction of the discipline of in-line skating. Emphasis on the demonstration, application and practice of in-line skating techniques and skills.	
H P 44A	INTERMEDIATE YOGA	1 Unit	H P 52	DANCE PRODUCTION: REHEARSAL & PERFORMANCE	2 Units
Three hours laboratory. May be taken six times for credit.	Intermediate yoga training, skills and techniques; independent, group, and personalized training; individual yoga and group interaction yoga.		Six hours laboratory. May be taken six times for credit.	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 44B	THERAPEUTIC YOGA	1 Unit	H P 52A	CLINICAL EXPERIENCES IN SPORTS MEDICINE I	3 Units
Three hours laboratory. May be taken six times for credit.	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.		Nine hours lecture/laboratory. May be taken three times for credit.	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 46	MOUNTAIN BIKING	1 Unit	H P 52B	CLINICAL EXPERIENCES IN SPORTS MEDICINE II	3 Units
Four hours laboratory. May be taken six times for credit.	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.		Nine hours laboratory. May be taken three times for credit.	Hands-on experience in emergency care, injury prevention, treatment and rehabilitation. Off-campus outpatient physical therapy clinics and the on-campus Athletic Treatment Center are utilized for internship. Advanced students may observe orthopedic surgeries at selected hospitals, participate in ambulance ride-alongs and observe in medical offices.	
H P 46B	INDOOR CYCLING-SPIN	1 Unit	H P 52C	CLINICAL EXPERIENCES IN SPORTS MEDICINE III	3 Units
Three hours laboratory. May be taken six times for credit.	An indoor cycling program to enhance cardiovascular fitness and improve cycling techniques. Emphasis will be on improving endurance through non-impact activity.		Nine hours lecture/laboratory. May be taken three times for credit.	Advanced experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries. Observation of orthopedic surgeries, assisting in physical therapy clinics or other related allied health settings compliment the on-campus Athletic Treatment Center.	
H P 47	BEGINNING COUNTRY-WESTERN LINE DANCING	1 Unit	H P 53A	BEGINNING TABLE TENNIS	1 Unit
Four hours laboratory. Any combination of dance courses may be taken six times for credit.	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.		Three hours laboratory. Any combination of table tennis classes may be taken six times for credit.	Introduction to the fundamental skills of table tennis, including basic grips, strokes, and strategy play.	
			H P 60	SPECIAL PROJECTS IN PHYSICAL EDUCATION	2 Units
			Six-hours lecture/laboratory May be taken six times for credit.	Individual development of special projects, materials and activities related to physical education and athletics.	

H P 61	RUN FOR FITNESS	1 Unit	H P 67C	TREATMENT & REHABILITATION OF ATHLETIC INJURIES	3 Units
Three hours laboratory.			Two hours lecture, three hours laboratory.		
May be taken six times for credit.					
The student will gain an appreciation for all phases of running, improve cardiovascular fitness, increase flexibility, develop endurance, and gain an understanding of the cognitive and psychological benefits of exercise.			Follow-up injury treatment, phases of tissue healing, and stages of rehabilitation including therapeutic modalities.		
H P 62	TAP AEROBICS	1 Unit	H P 68	PHYSICAL FITNESS ASSESSMENT	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
Aerobics combined with basic tap dance technique used to enhance muscle strength, endurance training and cardiovascular conditioning.			Physical fitness assessment techniques employing an exercise testing lab. Individual physical profiles will be developed along with nutritional recommendations.		
H P 62A	BEGINNING TAP DANCE	1 Unit	H P 68B	FITNESS & NUTRITION ASSESSMENT	1 Unit
Three hours laboratory.			Three hours lecture laboratory		
Any combination of tap dance classes may be taken six times for credit.			May be taken six times for credit.		
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.			Fitness assessment techniques employing individual fitness profiles, developed along with nutritional recommendations.		
H P 62B	INTERMEDIATE TAP DANCE	1 Unit	H P 70	TOPICS IN DANCE HISTORY	4 Units
Three hours laboratory.			Three hour lecture/three hours laboratory.		
Any combination of tap dance classes may be taken six times for credit.					
Development of the intermediate technical skills of tap dance. Emphasis is placed on increased difficulty of tap technique, including time steps, rifts and choreography.			Examines topics in dance as an art form, including history, traditions, trends; outstanding artists and works; specific technique, vocabulary, theory (Musical Theatre, Tap, Jazz, Ballet, Modern, Ethnic, World, Hip Hop); practice in observing and understanding dance in a historical context.		
H P 62C	ADVANCED TAP DANCE	1 Unit	H P 72	MOVEMENT FOR ACTORS	2 Units
Three hours laboratory.			Four hours lecture-laboratory.		
Any combination of tap dance classes may be taken six times for credit.			May be taken six times for credit.		
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.			Principles and practice of body awareness and movement for actors focusing on movement derived from jazz, musical theater, contemporary dance. Emphasis on alignment and centering, concentration and relaxation, development of the kinesthetic sense and exploration of the body/mind connection.		
H P 63	DEEP WATER RUNNING	1 Unit	H P 73	SPORTS MASSAGE	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken three times for credit.		
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.			Study of the movements involved in sports activity and common areas of injury. Massage techniques and evaluation procedures for creating a massage specific to the athlete's condition and sport.		
H P 64	BEGINNING BOWLING	1 Unit	H P 83	TAI CHI	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
A study of beginning bowling skills incorporating kinesthetic awareness, body movement, rhythm, and timing.			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 66	TOTAL FITNESS	1 Unit	H P 83B	ADVANCED TAI CHI	1 Unit
Three hours laboratory.			Three hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
A program for developing total fitness in flexibility, strength, and cardiovascular conditioning through stretching, weight training and aerobic exercise.			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 67A	PREVENTION OF ATHLETIC INJURIES	3 Units	H P 84	BEGINNING KARATE	.5 Unit
Two hours lecture, three hours laboratory.			H P 84X		1 Unit
Athletic injury prevention is emphasized through pre-participation physical exams, exercise programs, preventative taping, proper fitting of equipment, and protective braces.			H P 84: Two hours laboratory. H P 84X: Three hours laboratory.		
H P 67B	EMERGENCY ATHLETIC INJURY CARE	3 Units	Any combination of karate classes may be taken six times for credit.		
Two hours lecture, three hours laboratory.			Introduction to beginning skills and techniques of karate. Includes punching, blocking, striking and kicking techniques.		
American Red Cross Standard First Aid/CPR certificates are available upon completion of the course. Lecture and laboratory are devoted to basic injury recognition and emergency response of acute trauma. Practical hands-on skills are emphasized in laboratories.			H P 84A	INTERMEDIATE KARATE	1 Unit
			Three hours laboratory.		
			Any combination of karate courses may be taken six times for credit.		
			Intermediate karate skills and techniques. Analysis and application of biomechanics, individual and group interaction, and uses of karate.		

Continued on page 187

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

Foothill College 2005-2006

H P 100	FITNESS/HEALTH ASSESSMENT I	1 Unit	H P 390	CORPORATE SPORTS FITNESS	0 Units
Three hours lecture laboratory.			Prerequisite: Concurrent enrollment in a Human Performance course.		
May be taken six times for credit.			May be repeated. H P 390: Three hours laboratory. H P 390X: Six hours		
Fitness assessment techniques employing individual fitness profiles, developed along with nutritional recommendations.			laboratory. H P 390Y: Nine hours laboratory. H P 390Z: Twelve hours		
			laboratory. Credit course. May be repeated.		
H P 103	TOURNAMENT GOLF FIELD TRIP	1 Unit		Exercise and sport activity will be used to enhance healthy living, increase total fitness and reduce stress.	
Three hours laboratory.					
May be taken six times for credit.					
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	HUMN 1A	HUMANITIES & THE MODERN EXPERIENCE	4 Units
Six hours laboratory.			Four hours lecture, one hour laboratory.		
May be taken six times for credit.			An interdisciplinary survey of some of the cultural aspects of major civilizations from the Mesopotamians to the Italian Renaissance, and their influence on modern experiences. Illustrations of the cultural diversity which makes up modern life. Attendance at instructor approved lectures, performing arts events, and/or cultural exhibitions.		
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	HUMN 1B	HUMANITIES & THE MODERN EXPERIENCE	4 Units
Six hours laboratory.			Four hours lecture, one hour laboratory.		
May be taken six times for credit.			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.		
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	HUMN 34	HONORS INSTITUTE SEMINAR IN HUMANITIES	1 Unit
Three hours laboratory.			Prerequisite: Membership in the Honors Institute.		
May be taken six times for credit.			One hour lecture.		
Training for locally and nationally sanctioned tournaments at an intermediate and advanced level of play.			A seminar in directed readings, discussions, and projects in humanities. Specific topics to be determined by the instructor.		
H P 125F	SHORT COURSE TOURNAMENT/RANGE GOLF	1 Unit	HUMN 36	SPECIAL PROJECTS IN HUMANITIES	1 Unit
Three hours laboratory.			HUMN 36X		2 Units
May be taken six times for credit.			HUMN 36Y		3 Units
Intermediate/Advanced individual and group instruction on golf swing skills plus tournament play on local par three courses.			Formerly HUMN 50C.		
			One hour lecture for each unit of credit.		
H P 127	TOURNAMENT BASKETBALL	1 Unit	May be taken for up to eight units of credit.		
Three hours laboratory.			Intensive study of selected topics in humanities or interdisciplinary courses in humanities. Subjects may vary from quarter to quarter.		
May be taken six times for credit.					
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	ITAL 110	ITALIAN LANGUAGE & CULTURE	2.5 Units
Three hours laboratory.			Two and one-half hours lecture, one hour laboratory.		
May be taken six times for credit.			Introduction to the Italian language with 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.		
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	ITAL 111	ITALIAN LANGUAGE & CULTURE	2.5 Units
Three hours laboratory.			Prerequisite: ITAL 110.		
May be taken six times for credit.			Two and one-half hours lecture, one hour laboratory.		
Participation in tournament soccer competition at an intermediate and advanced level of play.			Continued practice of spoken and written Italian 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 Italian culture and society.		
H P 130	TOURNAMENT VOLLEYBALL	1 Unit			
Three laboratory.					
May be taken six times for credit.					
Tournament volleyball competition at an intermediate and advanced level of play. Includes team play, setting, attacking and blocking.					

ITAL 112	ITALIAN LANGUAGE & CULTURE	2.5 Units	JAPN 5	INTERMEDIATE JAPANESE	5 Units
Prerequisite: ITAL 111.			Prerequisite: JAPN 4 or four years of high school Japanese.		
Two and one-half hours lecture, one hour laboratory.			Five 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.			Continuation of Japanese 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. Differentiating socio-linguistic features, such as honorifics, feminine and masculine styles. Cultural skills to carry out tasks. Language laboratory practice. [JAPN 4 & 5 = CAN JAPN 8; JAPN 4 & 5 & 6 = CAN JAPN SEQ B]		
ITAL 113	ITALIAN LANGUAGE & CULTURE	2.5 Units	JAPN 6	INTERMEDIATE JAPANESE	5 Units
Prerequisite: ITAL 112.			Prerequisite: JAPN 5.		
Two hours lecture, two hours laboratory.			Five hours lecture, one hour 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.			Continuation of Japanese 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. [JAPN 4 & 5 & 6 = CAN JAPN SEQ B]		
JAPANESE					
Language Arts Division		(650) 949-7043	JAPN 13A	INTERMEDIATE CONVERSATION I	3 Units
		www.foothill.edu/la/	Prerequisite: JAPN 3.		
JAPN 1	ELEMENTARY JAPANESE	5 Units	Advisory: May be taken concurrently with JAPN 4.		
Five hours lecture, two hours laboratory.			Three hours lecture, one hour 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. [JAPN 1 & 2 & 3 = CAN JAPN SEQ A]			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.		
JAPN 2	ELEMENTARY JAPANESE	5 Units	JAPN 13B	INTERMEDIATE CONVERSATION II	3 Units
Prerequisite: JAPN 1 or one year of high school Japanese.			Prerequisite: JAPN 13A.		
Five hours lecture, two hours laboratory.			Advisory: May be taken concurrently with JAPN 5.		
Continuation of Japanese 1. Further development of material presented in Japanese 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. [JAPN 1 & 2 & 3 = CAN JAPN SEQ A]			Three hours lecture, one hour laboratory.		
JAPN 3	ELEMENTARY JAPANESE	5 Units	Continuation of Japanese 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.		
Prerequisite: JAPN 2 or two years of high school Japanese.					
Five hours lecture, two hours laboratory.			JAPN 14A	ADVANCED CONVERSATION I	3 Units
Continuation of Japanese 2. Further development of material presented in Japanese 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. [JAPN 1 & 2 & 3 = CAN JAPN SEQ A]			Prerequisite: JAPN 13B.		
JAPN 4	INTERMEDIATE JAPANESE	5 Units	Advisory: May be taken concurrently with JAPN 6.		
Prerequisite: JAPN 3 or three years of high school Japanese.			Three hours lecture, one hour laboratory.		
Five 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.		
Continuation of Japanese 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. [JAPN 4 & 5 = CAN JAPN 8; JAPN 4 & 5 & 6 = CAN JAPN SEQ B]					

JAPN 14B	ADVANCED CONVERSATION II	3 Units	JAPN 100	ELEMENTARY JAPANESE FOR ATYP	5 Units
Prerequisite: JAPN 14A.			Prerequisite: Recommendation of school principal.		
Advisory: May be taken concurrently with JAPN 6.			Five hours lecture, two hours laboratory.		
Three hours lecture, one hour laboratory.			Oral and written practice in the minimum competencies in language functions: vocabulary essential to 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 some Kanji. Language laboratory practice.		
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.					
JAPN 25A	ADVANCED COMPOSITION & READING	4 Units	JAPN 190	DIRECTED STUDY	.5 Unit
Prerequisite: JAPN 6.			JAPN 190X		1 Unit
Four hours lecture.			JAPN 190Y		1.5 Units
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 190Z		2 Units
JAPN 25B	ADVANCED COMPOSITION & READING	4 Units	Advisory: Pass/No Pass.		
Prerequisite: JAPN 25A.			Half hour lecture of individualized instruction for each half unit.		
Four hours lecture.			May be repeated six times for credit.		
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.			For students who desire or require additional help in attaining comprehension and competency in learning skills.		
JAPN 33	INTRODUCTION TO JAPANESE CULTURE	4 Units	JAPN 192	COMMUNITY SERVICE LEARNING FOR JAPANESE	1 Unit
Advisory: Concurrent enrollment in JAPN 1, 2, or 3 recommended.			Advisory: Pass/No Pass.		
Four hours lecture.			one hour lecture, three hours laboratory.		
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.			May be repeated for up to six times.		
JAPN 34	HONORS INSTITUTE SEMINAR IN JAPANESE	1 Unit	For students who desire training and technical support in experiential learning as a community volunteer in Japanese language and culture.		
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	1 Unit	KOREAN		
JAPN 36X		2 Units	Language Arts Division	(650) 949-7043	
JAPN 36Y		3 Units		www.foothill.edu/la/	
JAPN 36Z		4 Units			
Prerequisite: JAPN 5.					
One hour lecture for each unit of credit.					
May be taken six times for 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.					
KORE 1	ELEMENTARY KOREAN	5 Units			
Five hours lecture, two hours laboratory.					
Intensive oral practice of basic, everyday language functions, written practice, including Hangul, to further understand grammatical and syntactical structures. Introduction to basic Korean historical and cultural aspects. Language laboratory practice to reinforce pronunciation, grammar and syntax.					
KORE 2	ELEMENTARY KOREAN	5 Units			
Prerequisite: KORE 1 or one year of high school Korean.					
Five hours lecture, two hours laboratory.					
Further development of material presented in KORE 1. Intensive oral and written practice broadening the functions presented in KORE 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.					
KORE 3	ELEMENTARY KOREAN	5 Units			
Prerequisite: KORE 2 or two years of high school Korean.					
Five hours lecture, two hours laboratory.					
Further development of material presented in KORE 1 and 2. Continuation of elementary language skills for oral and written communication in targeted language functions, with focus on greater structural accuracy and communicative competence. Language laboratory practice to reinforce pronunciation, grammar and syntax.					
KORE 4	INTERMEDIATE KOREAN	5 Units			
Prerequisite: KORE 3 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 5	INTERMEDIATE KOREAN	5 Units	L A 189	SPECIAL STUDIES LAB	.5 Unit	
Prerequisite: KORE 4 or equivalent.			L A 189X		1 Unit	
Five hours lecture, one hour laboratory.			L A 189Y		1.5 Units	
Continuation of Korean 4. 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.			L A 189Z		2 Units	
KORE 6	INTERMEDIATE KOREAN	5 Units	Advisory: Pass/No Pass.			
Prerequisite: KORE 5 or equivalent.			One and one-half hours laboratory of individualized instruction for each half unit.			
Five hours lecture, one hour laboratory.			May be taken six times for credit.			
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.			For students who desire or require additional help in attaining comprehension and competency in learning skills.			
KORE 100	KOREAN SAT II PREPARATION	5 Units	L A 190	DIRECTED STUDY	.5 Unit	
Advisory: KORE 3 or equivalent			L A 190X		1 Unit	
Five hours lecture, one hour laboratory.			L A 190Y		1.5 Units	
Review of grammar and discussion of grammatical features beyond the elementary level. Development of listening, speaking, reading and writing skills at the intermediate level especially centered on everyday situations. Intensive grammar acquisition with oral practice and structure refinement with idiomatic expressions needed for preparation for Korean SAT II			L A 190Z		2 Units	
Advisory: Pass/No Pass.						
Half hour lecture of individualized instruction for each half unit.						
May be taken six times for credit.						
For students who desire or require additional help in attaining comprehension and competency in learning skills.						
L A 192	COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR LANGUAGE ARTS	1 Unit				
Advisory: KORE 3 or equivalent						
One hour lecture, three hours laboratory.						
May be taken six times for credit.						
For students who desire training and technical support in experiential learning as a community volunteer in specific language arts disciplines.						

LANGUAGE ARTS

Language Arts Division	(650) 949-7250	www.foothill.edu/la/	Language Arts Division	(650) 949-7250	www.foothill.edu/la/	
L A 36	SPECIAL PROJECTS IN LANGUAGE ARTS	1 Unit	LATN 1	ELEMENTARY LATIN	5 Units	
L A 36X		2 Units	Five hours lecture.			
L A 36Y		3 Units	Oral and written practice in the minimum essentials of pronunciation, grammar and syntax of Latin. Readings from simple prose.			
L A 36Z		4 Units				
One hour lecture for each unit of credit.						
May be taken six times for credit.						
A seminar emphasizing research, criticism, individual study, and field work. Discussions in individual projects under instructor's supervision. Specific topics will vary from quarter to quarter. This course cannot be substituted for departmental requirements. Enrollment for this course is available in the Language Arts Division Office.						
L A 80	INTRODUCTION TO TUTOR TRAINING	1 Unit	LATN 2	ELEMENTARY LATIN	5 Units	
Advisory: Eligibility for ENGL 1A recommended.			Prerequisite: LATN 1 or one year of high school Latin			
Two hours lecture-laboratory.			Written practice in the essentials of the grammar and syntax of Latin. Readings in Roman history and culture. Short readings from authentic sources.			
May be taken six times for credit.						
Introduction to theories and methods of effective tutoring, including role of a tutor, relationship of tutor to learner, assessment of learner, and creating a lesson plan, utilizing different methods.						
L A 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: ESL 25, 26; ENGL 100, 110, 1A, 1B. Student must currently be a team leader for a Pass the Torch study team.						
One hour lecture.						
May be taken three times for credit.						
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, when applicable, content-specific suggestions from the member's instructor.						
Computers, Technology & Information Systems Division (650) 949-7498						
www.foothill.edu/kci/linc/						
LINC 200	WEB PAGE DESIGN FOR EDUCATORS USING ADOBE GOLIVE	1 Unit				
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.						
One hour lecture two hours terminal time.						
May be repeated six times.						
Design and creation of World Wide Web pages using Adobe GoLive. Hands-on experience creating Web pages. Intended for Continuing Education.						

LINC 202	CREATING WEB QUESTS FOR & WITH YOUR STUDENTS	2 Units	LINC 208	ADVANCED SEARCHING & RESEARCHING THE INTERNET FOR EDUCATORS	2 Units
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. Two hours lecture and two hours terminal time.			Advisory: Familiarity with PC or Mac recommended. Basic Internet and Email skills.		
May be repeated six times.			Two hours lecture and 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.			May be repeated six times.		
LINC 203	FUNDAMENTALS OF INTERNET TECHNOLOGY FOR EDUCATORS	5 Units	LINC 209	SOFTWARE FOR WEB PAGE DESIGN: DREAMWEAVER	1 Unit
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills. Four hours lecture, four hours terminal time.			Advisory: Familiarity with PC or Mac recommended. Basic Internet and Email skills.		
May be taken three times for credit.			One hour lecture and two 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.			May be repeated six times.		
LINC 204	INTRODUCTION TO THE INTERNET & EMAIL FOR THE EDUCATOR	1 Unit	LINC 210	CREATING GREAT EDUCATIONAL WEB SITES	2 Units
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.			Two hours lecture and two hours terminal time.		
One hour lecture, one hour terminal time.			May be taken six times for credit.		
May be repeated six times.			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 205	WEB PAGE DESIGN FOR EDUCATORS USING MS FRONTPAGE	1 Unit	LINC 211	WORLD WIDE WEB PAGE DESIGN FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.			Advisory: Familiarity with PC or Mac recommended. Basic Internet and Email skills.		
One hour lecture and one hour terminal time.			One hour lecture and two hours terminal time.		
May repeat six times.			May be repeated twice.		
Design and creation of World Wide Web pages using MS FrontPage. Hands-on experience creating Web pages. Intended for Continuing Education.			Design and creation of World Wide Web pages. Hands-on experience creating Web pages. Intended for Continuing Education.		
LINC 206	INTRODUCTION TO THE INTERNET FOR EDUCATORS	1 Unit	LINC 214	INTEGRATING TECHNOLOGY USING ONLINE COLLABORATION TOOLS	2 Units
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.			Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.		
One hour lecture and one hour terminal time.			Two hours lecture two hours terminal time.		
May be repeated six times.			May be repeated six times.		
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 Listservs, Basics of the Browser, Bookmarks, Search Engines, and Basic Searching Strategies. It is intended for continuing education.			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 207	NETSCAPE COMPOSER FOR EDUCATORS	1 Unit	LINC 220	OVERVIEW OF TECHNOLOGY ETHICS & CYBER LAW FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.			Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.		
One hour lecture and one hour terminal time.			One hour lecture and 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 Web sites, and anchors will be addressed. Ideas for creating a student Web-based project will be discussed.			May be taken two times for credit.		
			This course will review current issues and legislation in computer ethics and cyber law. Copyright, fair use, legal implications, Acceptable Use Plans will be discussed and implications for the classroom will be explored. Internet resources will be explored. This course will also cover validity of Internet resources.		

LINC 221	ASSISTIVE TECHNOLOGY & UNIVERSAL ACCESS FOR EDUCATORS	1 Unit	LINC 227	ROBOTICS IN THE CLASSROOM FOR EDUCATORS	2 Units
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills. One hour lecture and one hour terminal time.			Advisory: A basic understanding of DC and AC circuit fundamentals, physical principles, and the basics of digital and analog circuits; a familiarity with microprocessors or microcontrollers.		
May be taken three times for credit.			Two hours lecture, two hour terminal time.		
This course will review current issues and legislation in assistive technology and universal access. Issues of efficacy and appropriateness of accommodations required for parity with peers in an education setting will be reviewed and discussed. Tools and issues of design, and compliance will be demonstrated. Internet resources will be explored.			Basic theory and applications of robotics, including: robotic classifications and terminology, types of common locomotion, gripper and manipulation components, robotic sensors and support components, drive energy systems and motor choices, motion control and collision avoidance, modern applications of robotic techniques. Exercises include the use and applications of the fundamental principles for construction and analysis of robots and robotic components.		
LINC 222	CHOOSING THE BEST MULTIMEDIA FOR STUDENT PROJECTS	2 Units	LINC 228	SELECTED TOPICS IN THE LINC PROGRAM FOR EDUCATORS	1 Unit
Two hours lecture two hour terminal time.			One hour lecture and one hour terminal time.		
May be taken six times for credit.			May be taken six times for credit.		
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.			Using various applications in the context of the K-12 classroom.		
LINC 223	ePORTFOLIOS FOR EDUCATORS & STUDENTS	1 Unit	LINC 229	OVERVIEW OF ADOBE PAGEMAKER FOR EDUCATORS	1 Unit
One hour lecture and one hour terminal time.			Advisory: Familiarity with PC or Mac recommended.		
May be repeated six times.			One hour lecture one hour terminal time.		
This course is a how-to on e-portfolios as authentic assessment. Electronic portfolios can be used for student work as well as for teacher professional development. Reflective practice that deepens learning will be presented. Student e-portfolios will be examined and analyzed. Computer tools that enable students to create powerful e-portfolios will be examined.			May be repeated six times.		
LINC 224	GLOBAL PROJECT-BASED LEARNING	2 Units	LINC 230	ADOBE PHOTOSHOP FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.			Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.		
Two hours lecture, two hours terminal time.			One hour lecture one hour terminal time.		
May be repeated six times.			May be repeated six times.		
How to create project-based standards and curriculum that maximizes the power of the Internet to connect students to email pen pals, virtual fieldtrips, Webquests, and other resources. Teachers will be able to connect with others all over the world in order to plan and implement projects. During the class participants will create a project that will engage students in learning curricular content.			Provides hands-on experience with the basic elements and tools of Photoshop to set up files, manage documents, and perform basic image processing. Includes advanced concepts and methods of developing images and creating special effects and problem solving.		
LINC 225	INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM	2 Units	LINC 231	OVERVIEW OF ADOBE PHOTOSHOP ELEMENTS FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.			Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills .		
Two hours lecture, two hours terminal time.			One hour lecture one hour terminal time.		
May be repeated six times.			May be repeated three times.		
How to integrate a student-centered technology project based on the California Content Standards, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating a student project as well as assessment and integration of technology into projects will be taught.			Provides hands-on experience with the basic elements and tools of Photoshop to set up files, manage documents, and perform basic image processing. Includes advanced concepts and methods of developing images and creating special effects and problem solving.		
LINC 226	OVERVIEW OF INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM	1 Unit	LINC 232	OVERVIEW OF ADOBE ACROBAT FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.			Advisory: Familiarity with PC or Mac recommended		
One hour lecture one hour terminal time.			One hour lecture and one hour terminal time.		
May be repeated six times.			May be repeated six times.		
How to integrate a student-centered technology project based on the California Content Standards, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating a student project as well as assessment and integration of technology into projects will be taught.			Provides hands on experience using Adobe Acrobat. The student will learn how to publish teacher and student on the Internet, retaining their original format.		
LINC 233	OVERVIEW OF ADOBE ILLUSTRATOR FOR EDUCATORS	1 Unit	Advisory: Familiarity with PC or Mac recommended		
			One hour lecture and one hour terminal time.		
			May repeat six times.		
			Adobe Illustrator is a software drawing tool. This class will provide hands-on experience with the basic elements and tools of Adobe Illustrator to produce one-page illustrations.		

LINC 234	OVERVIEW OF ADOBE INDESIGN FOR EDUCATORS	1 Unit	LINC 240	MACROMEDIA FREEHAND FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac and any word processing software recommended.			Advisory: Familiarity with PC or Mac recommended.		
One hour lecture and one hour terminal time.			One hour lecture and one hour terminal time.		
May be repeated six times.			May be repeated six times for credit.		
InDesign is an application for the creation 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.			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 235	ADobe LIVEMOTION	1 Unit	LINC 241	OVERVIEW OF iMOVIE	1 Unit
Advisory: Familiarity with Adobe GoLive or similar Web page authoring software, Adobe Photoshop or similar photo editing software, QuickTime, and Macromedia Flash is recommended			Advisory: Familiarity with Mac.		
One hour lecture, one hour terminal time.			One hour lecture and one hour terminal time.		
May be repeated six times.			May be repeated six times for credit.		
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.			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 236	ADobe PREMIER FOR EDUCATORS	1 Unit	LINC 242	OVERVIEW OF CREATING ANIMATIONS WITH MORPHINK	1 Unit
Advisory: Familiarity with PC or Mac, scanning photos, using a digital still and digital video camera recommended.			Advisory: Familiarity with PC recommended		
One hour lecture and one hour terminal time.			One hour lecture and one hour terminal time.		
May be repeated six times.			May be repeated six times.		
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.			Provides hands on experience using the animation software, Morphink. Participants will develop animation skills.		
LINC 237	INTRODUCTION TO MACROMEDIA FIREWORKS FOR EDUCATORS	1 Unit	LINC 243	BASIC PROGRAMMING FOR EDUCATORS & STUDENTS WITH STAGECAST CREATOR	1 Unit
Advisory: Familiarity with PC or Mac recommended.			Advisory: Familiarity with PC or Mac recommended.		
One hour lecture and one hour terminal time.			One hour lecture, two hours terminal time.		
May be repeated six times.			May be repeated six times.		
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.			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 238	MACROMEDIA FLASH	1 Unit	LINC 244	CREATING DIGITAL MOVIES WITH MOVIEWORKS	1 Unit
Advisory: Familiarity with Fireworks of similar photo editing software and with DreamWeaver or similar Web page authoring software is recommended			Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.		
One hour lecture and one hour terminal time.			One hour lecture, one hour terminal time.		
May be repeated six times.			May be repeated six times.		
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.			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 239	MACROMEDIA DIRECTOR FOR EDUCATORS	1 Unit	LINC 245	HYPERSTUDIO FOR EDUCATORS	1 Unit
Advisory: Familiarity with Mac or PC Familiarity with basic word processing, multimedia and image editing software.			Advisory: Familiarity with PC or Macintosh recommended.		
One hour lecture and one hour terminal time.			One hour lecture and one hour terminal time.		
May be repeated six times for credit.			May be repeated six times.		
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.			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	1 Unit	LINC 246	INTRODUCTION TO PRESENTATION SOFTWARE FOR EDUCATORS: POWERPOINT	1 Unit
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.			Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.		
One hour lecture and one hour terminal time.			One hour lecture and one hour terminal time.		
May be repeated six times.			May be repeated six times.		
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.			Provides students with skills necessary to create projects using Kid Pix. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their Kid Pix Slid Show.		
LINC 247	KID PIX FOR EDUCATORS	.5 Unit			
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.					
One half hour lecture and one half hour terminal time.					
May be repeated six times.					

LINC 248	KIDWORKS DELUXE FOR EDUCATORS	.5 Unit	LINC 261	INTEGRATING TECHNOLOGY INTO THE LANGUAGE ARTS CURRICULUM	1 Unit
Advisory: Familiarity with PC or Mac. Basic Internet skills. One half hour lecture, one half hour terminal time. May be repeated six times.	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.		Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. One hour lecture one hour terminal time. May be repeated six times.	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 250	OVERVIEW OF APPLEWORKS	1 Unit	LINC 262	INTEGRATING TECHNOLOGY INTO THE SCIENCE CURRICULUM	1 Unit
Advisory: Basic understanding how to use a Macintosh Computer. One hour lecture and one hour terminal time. May be repeated six times for credit.	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.		Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. One hour lecture, one hour terminal time. May be repeated six times.	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 251	OVERVIEW OF MULTIMEDIA FOR EDUCATORS	1 Unit	LINC 263	INTEGRATING TECHNOLOGY INTO THE MATHEMATICS CURRICULUM	1 Unit
One hour lecture, one hour terminal time. May be repeated six times for credit.	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.		Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. One hour lecture, one hour terminal time. May be repeated six times.	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 252	MULTIMEDIA IN THE CLASSROOM	1 Unit	LINC 264	INTEGRATING TECHNOLOGY INTO THE SOCIAL STUDIES CURRICULUM	1 Unit
One hour lecture, one hour terminal time. May be repeated six times.	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.		Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. One hour lecture, one hour terminal time. May be repeated six times.	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 255	TECHNOLOGY IN THE K-12 CLASSROOM FOR EDUCATORS	1 Unit	LINC 270	MS WORD FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac recommended. One hour lecture, two hours terminal time. May be repeated six times.	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.		Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. One hour lecture, one hour terminal time. May be repeated six times.	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 256	ITOOLS MAC FOR OS X	1 Unit	Advisory: Familiarity with Macintosh and OS X. One hour lecture and one hour terminal time. May be repeated six times.	Provides hands on experience with a Macintosh computer and the OS X iTools programs such as iPhoto, iTunes, iMove, iDisk, and their interactivity.	
LINC 260	ASSESSMENT STRATEGIES FOR TECHNOLOGY INTEGRATION FOR EDUCATORS	1 Unit	Advisory: Familiarity with PC or Mac recommended. Familiarity with technology integration in the classroom and the Internet. One hour lecture and one hour terminal time. May be repeated six times.	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	
			Advisory: Familiarity with PC or Mac recommended. One hour lecture and one hour terminal time. May be repeated six times.	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	MS EXCEL FOR EDUCATORS	1 Unit	LINC 292A	GET TO KNOW YOUR HANDHELD FOR EDUCATORS	.5 Unit
Advisory: Familiarity with PC or Mac recommended.			Advisory: Familiarity with basic computer skills.		
One hour lecture and one hour terminal time.			One half hour lecture and one half hour terminal time.		
May be repeated six times.			May be repeated six times.		
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.			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.		
LINC 272	OVERVIEW OF MS WORD OFFICE FOR EDUCATORS	1 Unit	LINC 292B	EXPLORING EDUCATIONAL APPLICATIONS FOR HANDHELD DEVICES FOR EDUCATORS	.5 Unit
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.			Advisory: Familiarity with basic computer skills.		
One hour lecture and one hour terminal time.			One half hour lecture and one half hour terminal time.		
May be repeated six times.			May be repeated six times.		
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.			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. Emphasis on educational applications available.		
LINC 273	MS ACCESS BASICS FOR EDUCATORS	1 Unit	LINC 293	BASIC INTRODUCTION TO THE COMPUTER FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac.			One hour lecture and one hour terminal time.		
One hour lecture, two hours terminal time.			May be repeated three times.		
May be repeated two times.			Hands-on introduction to the computer: Hardware Components; Basic Interface, File Organization; Operating System; Introduction to Word Processing, Spreadsheets, & Graphics.		
Introduction to Access, a relational database tool; hands-on experience. Intended for Continuing Education.					
LINC 275	OVERVIEW OF FILEMAKER PRO FOR EDUCATORS	1 Unit	LINC 294	INTRODUCTION TO THE COMPUTER FOR EDUCATORS	4 Units
Advisory: Basic computer skills, how to use the keyboard and a mouse, and a basic understanding of how to use menus is advisable.			Two hours lecture, two hours lecture within laboratory, two hours terminal time.		
One hour lecture and one hour terminal time.			Not Repeatable.		
May be repeated six times.			Introduction to the computer and its uses for the student with little or no computer experience. Use of the IBM PC (Windows) and Macintosh OS for hands-on experience with a word processor, a spreadsheet, a database manager, graphics, file management techniques, simple software configuration, an Internet browser, multimedia and Web page production, and the use of a programming language. Discussion of other software applications, computer ethics and CyberLaw, and of the role of computers and the information superhighway in our society and our schools.		
Introduction to Filemaker Pro, a relational database tool; hands-on experience. Intended for Continuing Education.					
LINC 285	ALPHASMARTS IN THE CLASSROOM FOR EDUCATORS	1 Unit	LINC 295	INTRODUCTION TO THE MACINTOSH FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac.			Advisory: Familiarity with Macintosh recommended		
One hour lecture, two hours terminal time.			One hour lecture and one hour terminal time.		
May be repeated two times.			May be repeated six times		
How to use the AlphaSmart Keyboard in the classroom; hands-on experience. Intended for Continuing Education.			Provides hands on experience with a Macintosh computer. Hardware components and capabilities will be explored, along with basic troubleshooting skills.		
LINC 286	INTERMEDIATE/ADVANCED FIREWORKS	1 Unit	LINC 296	INTRODUCTION TO THE PC FOR EDUCATORS	1 Unit
Advisory: Familiarity Fireworks and DreamWeaver recommended.			Advisory: Familiarity with PC recommended.		
One hour lecture and one hour terminal time.			One hour lecture and one hour terminal time.		
May be repeated six times.			May be repeated six times.		
Provides hands-on experience with the some of the more 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.			Provides hands on experience with a Windows environment on a PC. Hardware components and capabilities will be explored, along with basic troubleshooting skills.		
LINC 287	INTERMEDIATE/ADVANCED MACROMEDIA FLASH	1 Unit	LINC 297	MAC OS X FOR EDUCATORS	.5 Unit
Advisory: Familiarity with Flash, Fireworks and DreamWeaver is recommended.			Advisory: Familiarity with Macintosh recommended.		
One hour lecture and one hour terminal time.			One half hour lecture and one half hour terminal time.		
May be repeated six times.			May be repeated six times.		
Macromedia Flash is an animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video for your Web site with navigation controls animated features and long-form animations with synchronized sound. Export Flash to HTML. Intended for Continuing Education.			Provides hands on experience with a Macintosh computer. Hardware components and capabilities of OS X will be explored.		

LIBRARY SCIENCE

Library Learning Resources Division

(650) 949-7393
www.foothill.edu/ol/

LIBR 1 PRINCIPLES OF LIBRARY RESEARCH 3 Units

Advisory: Not open to students with credit in LIBR 50.

Nine hours laboratory.

An in-depth analysis of the resources of an academic library's print and non-print collections, including computer searching. This is a self-paced course.

LIBR 36	SPECIAL PROJECTS	1 Unit
LIBR 36X	IN LIBRARY SCIENCE	2 Units
LIBR 36Y		3 Units
LIBR 36Z		4 Units

Advisory: Pass/No Pass.

One hour lecture for each unit of credit.

May be taken six times for credit.

Individual projects in creative, technical, and applied works in library science. Specific projects will vary from quarter to quarter depending on the student's individual skills and knowledge of library science and operations.

LIBR 50 INTRODUCTION TO LIBRARY SKILLS 1 Unit

Advisory: Not open to students with credit in LIBR 1.

Three hours laboratory.

An introduction to the use of print and non-print resources in an academic library. A self-paced course for inexperienced library users and/or students for whom English is a second language.

LIBR 57 INTERNET RESEARCH STRATEGIES, CRITICAL THINKING SKILLS & INFORMATION LITERACY 2 Units

Advisory: Familiarity with Mac or PC recommended.

One hour lecture, one hour lecture-laboratory, two hours terminal time.

May be taken two times for credit.

Research strategies for locating, retrieving and evaluating information available on the Internet. Instruction in defining problems, choosing and effectively using online resources, and maximizing the use of various search engines. Hands-on practice developing effective research skills. Interdisciplinary application of concepts, including multicultural topics. Development of critical thinking skills and information literacy via the access, evaluation and use of electronic resources.

LIBR 60 INFORMATION COMPETENCY: SOCIAL SCIENCES 1 Unit

Corequisite: SOC 10 or PSYC 10

Advisory: Familiarity with Macs or PCs recommended.

One half hour lecture, one hour lecture/laboratory

Locate, examine, and evaluate social science resources available on the Internet and in print sources.

LIBR 61 INFORMATION COMPETENCY 2 Units

Advisory: Familiarity with Macs or PCs recommended.

One hour lecture, two hours lecture/laboratory.

Research strategies for identifying an information need; then locating, accessing, examining, organizing, analyzing, communicating, and understanding the ethical and legal uses of information from the Internet and in print sources. Multidisciplinary application of concepts covering multicultural topics.

LIBR 90A-D LIBRARY INFORMATION SEMINARS .5 Unit

Advisory: Pass/No Pass.

One-half hour lecture.

May be taken six times for credit.

In-depth analysis and study of specific topics concerning operations, procedures, new developments and trends in information technology and library sciences.

LIBR 190	DIRECTED STUDY	.5 Unit
LIBR 190X		1 Unit
LIBR 190Y		1.5 Units
LIBR 190Z		2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.

May be taken six times for credit.

For students who desire or require additional help in attaining comprehension and competency in library and research skills.

LINGUISTICS

Language Arts Division (650) 949-7250
www.foothill.edu/la/

LING 34 HONORS INSTITUTE SEMINAR IN LINGUISTICS 1 Unit

Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in linguistics. Specific topics to be determined by the instructor.

MATHEMATICS

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/divisions/psme/

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; MATH 1A & 1B = CAN MATH 8; MATH 1A & 1B & 1C = CAN MATH SEQ B; MATH 1A & 1B & 1C & 1D = CAN MATH SEQ C]

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 19; MATH 1A & 1B = CAN MATH 8; MATH 1A & 1B & 1C = CAN MATH SEQ B; MATH 1A & 1B & 1C & 1D = CAN MATH SEQ C; MATH 1B & 1C = CAN MATH 20]

MATH 1C CALCULUS 5 Units

Prerequisite: MATH 1B.

Five hours lecture, one hour computer terminal time.

Infinite series, partial differentiation, three-dimensional analytic geometry. [CAN MATH 21; MATH 1B & 1C = CAN MATH 20; MATH 1A & 1B & 1C = CAN MATH SEQ B; MATH 1A & 1B & 1C & 1D = CAN MATH SEQ C]

MATH 1D CALCULUS 5 Units

Prerequisite: MATH 1C.

Five hours lecture, one hour laboratory.

Introduction to integration of functions of more than one variable, including double, triple, flux and line integrals. Additional topics include polar, cylindrical and spherical coordinates, parameterization, vector fields, path-independence, divergence and curl. [CAN MATH 23; MATH 1C & 1D = CAN MATH 22; MATH 1A & 1B & 1C & 1D = CAN MATH SEQ C]

MATH 2A DIFFERENTIAL EQUATIONS	5 Units	MATH 44 AN INTRODUCTION TO CONTEMPORARY MATHEMATICS	5 Units
Prerequisite: MATH 1C. Five hours lecture, one hour laboratory. Differential equations and selected topics of mathematical analysis. [CAN MATH 24]		Prerequisite: Satisfactory score on the mathematics placement test or MATH 105. Five hours lecture, one hour laboratory. Survey of selected topics from contemporary mathematics to introduce the student to mathematical thinking for the nonspecialist, including powers and geometric series, combinatorics, probability, areas and volumes, financial mathematics, binary arithmetic, and topics from relativity. [CAN MATH 2]	
MATH 2B LINEAR ALGEBRA	5 Units	MATH 46 NUMBER SYSTEMS	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]		Prerequisites: Satisfactory score on the mathematics placement test or MATH 105 (Intermediate Algebra). Five hours lecture. Number systems, set theory, mathematical reasoning, modeling, application to real-world problems, use of technology. Emphasis on critical thinking and problem-solving strategies. Course provides collegiate-level quantitative reasoning appropriate for liberal arts and teacher preparation majors.	
MATH 10 ELEMENTARY STATISTICS	5 Units	MATH 49 PRECALCULUS	5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 104 or MATH 105. Five hours lecture, one hour computer terminal time. 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]		Prerequisite: Satisfactory score on the mathematics placement test or MATH 51. Five hours lecture, one hour laboratory. Functions, graphing and elements of plane analytic geometry. Selected topics in precalculus in preparation for calculus. [CAN MATH 10]	
MATH 11 FINITE MATHEMATICS	5 Units	MATH 51 TRIGONOMETRY	5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 104 or MATH 105. Five hours lecture, one hour laboratory. Set theory, basic combinatorial analysis, introduction to probability, linear equations and inequalities, introduction to linear programming and the simplex method, introduction to matrix algebra with applications, Markov chains, game theory and mathematics of finance. [CAN MATH 12]		Prerequisite: Satisfactory score on the mathematics placement test or MATH 105. Advisory: MATH 102 recommended. Five hours lecture, one hour laboratory. Not repeatable. 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 12 CALCULUS FOR BUSINESS & ECONOMICS	5 Units	MATH 100 OPEN COMPUTER LABORATORY	.5 Unit
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 100X	1 Unit
		MATH 100Y	2 Units
		Three hours laboratory for each unit of credit. May be taken six times for credit. Individual study and/or guidance provided for students who desire or require additional assistance in any of the mathematics courses.	
MATH 22 DISCRETE MATHEMATICS	5 Units	MATH 101 ELEMENTARY ALGEBRA	5 Units
Prerequisite: MATH 49. Advisory: Not open to students with credit in CIS 18. Five hours lecture, one hour laboratory. Discrete mathematics: graphs, sets, logic, mathematical induction, combinatorics, Boolean algebra, algebraic structures. [CAN CSCI 26]		Prerequisite: Satisfactory score on the mathematics placement test or MATH 200. Advisory: Students may not receive credit for both MATH 101 and MATH 101A, B, C, D, E. 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 34 HONORS INSTITUTE	1 Unit	MATH 101A ELEMENTARY ALGEBRA: REAL NUMBERS	1 Unit
MATH 34X SEMINAR IN MATHEMATICS	2 Units	Prerequisite: Satisfactory score in the placement test or MATH 200. Advisory: Students may not receive credit for both MATH 101 and MATH 101A, B, C, D, E. Three hours laboratory. Development of the properties of numbers and basic operations with fractions and signed numbers. Introduction to variables, expressions and equations.	
MATH 34Y	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 101B ELEMENTARY ALGEBRA: EQUATIONS	1 Unit
		Prerequisite: MATH 101A. Advisory: Students may not receive credit for both MATH 101 and MATH 101A, B, C, D, E. Three hours laboratory. Continuation of MATH 101A. Solving first degree equations and their applications. Introduction to inequalities.	
MATH 36 SPECIAL PROJECTS IN MATHEMATICS	1 Unit		
MATH 36X	2 Units		
MATH 36Y	3 Units		
Advisory: High interest in the pursuit of mathematical knowledge. Previous experience in mathematics recommended. Three hours laboratory for each unit of credit. May be taken for six units 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 101C ELEMENTARY ALGEBRA: POLYNOMIALS 1 Unit	MATH 156 ESSENTIAL DECISION SKILLS 5 Units
Prerequisite: MATH 101B. Advisory: Students may not receive credit for both MATH 101 and MATH 101A, B, C, D, E. Three hours laboratory. Continuation of MATH 101B. Introduction to operations with polynomials and the rules of exponents.	Prerequisite: Qualifying score of the Foothill Assessment Test and recommendation of high school principal. Five hours lecture, one hour laboratory. Not repeatable. This course covers the analytical and technical tools for decision modeling, including spreadsheets, basic probability, decision trees, decision diagrams, and sensitivity analysis. We will also consider the human element of decision-making, including cognitive, emotional, and social factors.
MATH 101D ELEMENTARY ALGEBRA: LINEAR EQUATIONS 1 Unit	MATH 167 STANDARDIZED TEST PREPARATION: MATHEMATICS 1 Unit
Prerequisite: MATH 101C. Advisory: Students may not receive credit for both MATH 101 and MATH 101A, B, C, D, E. Three hours laboratory. Continuation of MATH 101C. Graphing linear equations and inequalities in two variables.	MATH 167X 1.5 Units MATH 167Y 2 Units MATH 167Z 2.5 Units One hour lecture for each unit of credit. May be taken three times for credit. Test-taking strategies for standardized college entrance mathematics tests. Analysis of test structure and content. Identification of areas of student weaknesses, and instruction in those areas. Practice on standardized college entrance mathematics tests.
MATH 101E ELEMENTARY ALGEBRA: SYSTEMS OF EQUATIONS 1 Unit	MATH 190 DIRECTED STUDY .5 Unit
Prerequisite: MATH 101D. Advisory: Students may not receive credit for both MATH 101 and MATH 101A, B, C, D, E. Three hours laboratory. Continuation of MATH 101D. Solving systems of equations and their applications.	MATH 190X 1 Unit MATH 190Y 1.5 Units MATH 190Z 2 Units Advisory: Pass/No Pass. For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture. May be taken six times for credit. For students who desire or require additional help in attaining comprehension and competency in learning skills.
MATH 102 ELEMENTARY PLANE GEOMETRY 5 Units	MATH 190W DIRECTED STUDY 6 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.	Prerequisite: Pass/No Pass One-half hour lecture and sixteen and one- half hours laboratory. May be taken six times for credit. For students who desire or require additional help in attaining comprehension and competency in mathematics.
MATH 103 ESSENTIALS OF INTERMEDIATE ALGEBRA I 5 Units	MATH 195 ADVANCED PROBLEM SOLVING FOR HIGH SCHOOL MATHEMATICS CONTESTS 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. 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.	Prerequisite: One year of algebra, one year of geometry, qualifying SAT/ PSAT score and recommendation of school principal. Five hours lecture. May be taken six times for credit. Advanced problem-solving techniques and strategies focused upon preparing students for mathematics contests.
MATH 105 INTERMEDIATE ALGEBRA 5 Units	MATH 200 PREALGEBRA 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 MATH 104. Five hours lecture, one hour laboratory. Linear, quadratic polynomial, rational, exponential and logarithmic functions with an emphasis on graphing and applications. Additional topics include linear systems, radical expressions and equations and complex numbers.	Prerequisite: Satisfactory score on the mathematics placement test or MATH 250. Students may not receive credit for both MATH 200 and MATH 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 127 INTRODUCTION TO MATHEMATICA 1 Unit	MATH 200A STRUCTURE OF ARITHMETIC: WHOLE NUMBERS, INTEGERS, ALGEBRAIC EXPRESSIONS 1 Unit
Advisory: MATH 1A (may be taken concurrently). One hour lecture, one hour computer terminal time. 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.	Prerequisite: Satisfactory score on the mathematics placement test or MATH 250. Advisory: Students may not receive credit for both MATH 200 and MATH 200A, B, C, D, E. Three hours laboratory. Development of the properties of whole numbers and their basic operations. Emphasis on computational skills and their applications.
MATH 135 PROBLEM SOLVING FOR MATHEMATICS CONTESTS .5 Unit	
MATH 135X 1 Unit	
MATH 135Y 2 Units	
Advisory: MATH 102 and 105, or equivalent. One hour lecture for each unit of credit. May be taken six times for credit. Problem-solving techniques and strategies focused upon preparing students for mathematics contests. Analysis of contest structure and content.	

MATH 200B STRUCTURE OF ARITHMETIC: FRACTIONS 1 Unit	MET 10L METEOROLOGY LABORATORY 1 Unit
Prerequisite: MATH 200A.	Corequisite: MET 10 must be taken concurrently.
Advisory: Students may not receive credit for both MATH 200 and MATH 200A, B, C, D, E.	One hour lecture within laboratory, two hours laboratory.
Three hours laboratory.	Care and use of weather data acquisition instruments such as the maximum-minimum thermometers, barometer, psychrometer, and recording systems such as hygrothermograph, barograph, wind recorder, and facsimile map recorder. Atmospheric analysis using the adiabatic chart. Techniques of weather analysis using station reports. Establishment and maintenance of a complete weather station including record keeping.
MATH 200C STRUCTURE OF ARITHMETIC: DECIMALS, RATIOS & PROPORTIONS 1 Unit	MET 34 HONORS INSTITUTE SEMINAR IN METEOROLOGY 1 Unit
Prerequisite: MATH 200B.	Prerequisite: Membership in the Honors Institute.
Advisory: Students may not receive credit for both MATH 200 and MATH 200A, B, C, D, E.	One hour lecture.
Three hours laboratory.	A seminar in directed readings, discussions and projects in meteorology. Specific topics to be determined by the instructor.
MATH 200D STRUCTURE OF ARITHMETIC: PERCENT 1 Unit	MET 36 SPECIAL PROJECTS IN METEOROLOGY 1 Unit
Prerequisite: MATH 200C.	MET 36X 2 Units
Advisory: Students may not receive credit for both MATH 200 and MATH 200A, B, C, D, E.	MET 36Y 3 Units
Three hours laboratory.	Advisory: High interest in the pursuit of meteorological knowledge. Previous experience in meteorology recommended.
Continuation of MATH 200C. Development of the concept of percent and its applications. Study of the English measurement system, the metric system, and conversion from one to the other.	Three hours laboratory for each unit of credit.
MATH 200E STRUCTURE OF ARITHMETIC: GEOMETRY & MEASUREMENT 1 Unit	May be taken for six units of credit.
Prerequisite: MATH 200D.	A seminar in directed reading and discussion in meteorology. An opportunity to do meteorological research. An opportunity to assist in the planning, development and presentation of meteorology programs.
MATH 250 ARITHMETIC 5 Units	MUSIC
Five hours lecture, one hour laboratory.	Fine Arts & Communications Division (650) 949-7141
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.	www.foothill.edu/fa/
MATH 250L BASIC COLLEGE MATHEMATICS 6 Units	MUS 1 INTRODUCTION TO MUSIC 4 Units
Five hours lecture, three hours laboratory.	Four hours lecture, two 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.	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.
MET 10 WEATHER PROCESSES 4 Units	MUS 2A GREAT COMPOSERS & MUSIC 4 Units
Four hours lecture.	MASTERPIECES OF WESTERN CIVILIZATION
Meteorological elements and observations; atmospheric moisture; fluid motion; structure and circulation of the atmosphere; weather phenomena of air masses and fronts; use of adiabatic chart; weather map analysis and interpretation; applications to aviation. For general education laboratory science credit, concurrent enrollment in MET 10L required.	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.
MUS 2B GREAT COMPOSERS & MUSIC 4 Units	MASTERPIECES OF WESTERN CIVILIZATION
Four hours lecture, two hours laboratory.	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.

MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES OF WESTERN CIVILIZATION	4 Units	MUS 7D	CONTEMPORARY MUSICAL STYLES: THE BEATLES IN THE CULTURE OF POPULAR MUSIC	4 Units
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 their music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical period is 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, Bartók, Berg, Webern, Stravinsky, Copland, Varèse, Babbitt, Cage, Crumb, Ligeti, Penderecki, Reich, Glass and Adams.					
MUS 3A	BEGINNING MUSIC THEORY, LITERATURE & COMPOSITION	5 Units	MUS 7E	HISTORY OF THE BLUES	4 Units
Advisory: Mus 12A strongly recommended.					
Four hours lecture, four 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.					
MUS 3AL	THEORY LABORATORY IN EAR TRAINING & SIGHT SINGING	1 Unit	MUS 8	MUSIC OF MULTICULTURAL AMERICA	4 Units
Corequisite: Concurrent enrollment in MUS 3A.					
Three hours laboratory.					
Supervised practice of musicianship through the acquisition of skills in sight singing plus rhythmic, harmonic and melodic dictation.					
MUS 3B	INTERMEDIATE MUSIC THEORY, LITERATURE & COMPOSITION	5 Units	MUS 10	MUSIC FUNDAMENTALS	4 Units
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.					
MUS 3BL	THEORY LABORATORY IN EAR TRAINING & SIGHT SINGING	1 Unit	MUS 12A	BEGINNING CLASS PIANO	2 Units
Corequisite: Concurrent enrollment in MUS 3B.					
Three hours laboratory.					
Supervised practice of musicianship through the acquisition of skills in sight singing, plus rhythmic, harmonic and melodic dictation.					
MUS 3C	ADVANCED MUSIC THEORY, LITERATURE & COMPOSITION	5 Units	MUS 12AL	CLASS PIANO LABORATORY I	1 Unit
Advisory: MUS 3B proficiency or equivalent recommended.					
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.					
MUS 3CL	THEORY LABORATORY IN EAR TRAINING & SIGHT SINGING	1 Unit	MUS 12B	INTERMEDIATE CLASS PIANO	2 Units
Corequisite: Concurrent enrollment in MUS 3C.					
Three hours laboratory.					
Supervised practice of musicianship through the acquisition of skills in sight singing, plus rhythmic, harmonic and melodic dictation.					
MUS 7	CONTEMPORARY MUSICAL STYLES: ROCK, POP & JAZZ	4 Units	MUS 12BL	CLASS PIANO LABORATORY II	1 Unit
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.					

MUS 12C	ADVANCED CLASS PIANO	2 Units	MUS 13C	CLASS VOICE III	1 Unit
Advisory: MUS 12B or equivalent skills and concurrent enrollment in MUS 12CL recommended.			Prerequisite: MUS 13A and 13B.		
Two hours lecture, one hour laboratory.			Corequisite: Concurrent enrollment in MUS 13CL is required.		
May be taken six times for credit.			Two hours lecture-laboratory, one hour laboratory.		
Continuation of MUS 12B with greater emphasis on building a repertoire, varied styles of performance, and ensemble playing.			Continuation of MUS 13A and 13B, with additional emphasis on musical phrasing, artistic interpretation, and foreign language usage.		
MUS 12CL	CLASS PIANO LABORATORY III	1 Unit	MUS 13CL	CLASS VOICE LABORATORY	1 Unit
Advisory: Pass/No Pass.			Advisory: Pass/No Pass.		
Three hours laboratory.			Three hours laboratory.		
Supervised practice of piano repertoire and technical material assigned in MUS 12C.			Supervised practice of vocal repertoire and technical material assigned in MUS 13C.		
MUS 12D	PIANO REPERTOIRE	2 Units	MUS 14A	BEGINNING CLASSICAL GUITAR	2 Units
Prerequisite: MUS 12C or equivalent.			Advisory: Concurrent enrollment in MUS 14AL recommended.		
Advisory: Concurrent enrollment in MUS 12DL is recommended.			Two hours lecture, one hour laboratory.		
Two hours lecture, one hour supervised laboratory.			May be taken six times for credit.		
May be taken six times for credit.			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 12DL	PIANO REPERTOIRE LABORATORY	1 Unit	MUS 14AL	CLASSICAL GUITAR LABORATORY	1 Unit
Advisory: Pass/No Pass.			Corequisite: Concurrent enrollment in MUS 14A.		
Three hours laboratory.			Two hours laboratory, one hour supervised practice.		
Supervised practice of piano repertoire and technical material assigned in MUS 12D.			May be taken six times for credit.		
MUS 12E	PIANO MASTER CLASS	2 Units	Supervised practice in performance methods and techniques in the manner of playing classical guitar.		
Advisory: MUS 12C or equivalent skills recommended.			MUS 14B	INTERMEDIATE CLASSICAL GUITAR	2 Units
Two hours lecture, one hour supervised laboratory.			Advisory: MUS 14A and concurrent enrollment in MUS 14BL recommended.		
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.			May be taken six times for credit.		
MUS 12F	KEYBOARD MUSICIANSHP	1 Unit	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.		
Two hours lecture-laboratory, one hour laboratory.			MUS 14BL	CLASSICAL GUITAR LABORATORY	1 Unit
May be taken two times for credit.			Corequisite: Concurrent enrollment in MUS 14B.		
Self-paced instruction for students with piano as a secondary instrument to improve keyboard skills in the areas of sightreading, keyboard harmony, score reading, transposition, improvisation, and popular chord progressions.			Two hours laboratory, one hour supervised practice.		
MUS 13A	CLASS VOICE I	1 Unit	May be taken six times for credit.		
Advisory: MUS 12A and 13AL taken concurrently is recommended.			Supervised practice in performance methods and techniques in the manner of playing classical guitar.		
Two hours lecture-laboratory, one hour laboratory.			MUS 14C	ADVANCED CLASSICAL GUITAR	1 Unit
Group instruction in fundamental techniques of singing. Opportunity to develop positive concepts of tone production, diction, stage presence, and music reading needed by the singer.			Advisory: MUS 14B and concurrent enrollment in MUS 14CL recommended.		
MUS 13AL	CLASS VOICE LABORATORY	1 Unit	Two hours lecture, one hour laboratory.		
Advisory: Pass/No Pass.			May be taken six times for credit.		
Three hours 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.		
Supervised practice of vocal repertoire and technical material assigned in MUS 13A.			MUS 14CL	CLASSICAL GUITAR LABORATORY	1 Unit
MUS 13B	CLASS VOICE II	1 Unit	Corequisite: Concurrent enrollment in MUS 14C.		
Prerequisite: MUS 13A.			Two hours laboratory, one hour supervised practice.		
Corequisite: Concurrent enrollment in MUS 13BL is required.			May be taken six times for credit.		
Two hours lecture-laboratory, one hour laboratory.			Supervised practice in performance methods and techniques in the manner of playing classical guitar.		
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 15A	BEGINNING FOLK GUITAR	2 Units	MUS 35	SPECIAL PROJECTS IN MUSIC (HONORS)	2 Units
Two hours lecture, one hour laboratory.			Six hours laboratory.		
May be taken six times for credit.			May be taken six times for credit.		
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.			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 15AL	FOLK GUITAR LABORATORY	1 Unit	MUS 50A	MUSIC BUSINESS	4 Units
Corequisite: Concurrent enrollment in MUS 15A.			Four hours lecture, two hours laboratory		
Two hours laboratory, one hour supervised practice.			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.		
May be taken six times for credit.					
Supervised practice in performance methods and techniques in the manner of playing folk guitar.					
MUS 15B	INTERMEDIATE FOLK GUITAR	2 Units	MUS 50B	ENTERTAINMENT LAW & NEW MEDIA	4 Units
Prerequisite: MUS 15A or equivalent.			Four hours lecture, two hours laboratory		
Two hours lecture, one hour 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.		
May be taken six times for credit.					
Development of traditional finger-picking style playing and plectrum techniques. Solo and ensemble performance on an intermediate level. Emphasis on reading traditional notation, chord symbols and tablature.					
MUS 15BL	FOLK GUITAR LABORATORY	1 Unit	MUS 56B	ADVANCED SONGWRITING & COMPOSING WITH DIGITAL NOTATION	4 Units
Corequisite: Concurrent enrollment in MUS 15B.			Two hours lecture, three hours lecture-laboratory, three hours laboratory.		
Two hours laboratory, one hour supervised practice.			Follow-up course to MUS 56A to further develop expertise with music software Sibelius for professional music notation in songwriting and large-scale composition forms. Develop an ability to make complex and sophisticated beats, instrument arrangements, film scores, sound designs for theater, and audio files for accompanying live performances. Develop effective writing skills with commonly used instruments in pop and classical music. Write songs and large-scale compositions to develop notation skills and their application with MIDI and Protools systems.		
May be taken six times for credit.					
Supervised practice in performance methods and techniques in the manner of playing folk guitar.					
MUS 15C	ADVANCED FOLK GUITAR	2 Units	MUS 59	CONTEMPORARY HARMONY	4 Units
Prerequisite: MUS 15A and 15B or equivalent.			Two hours lecture, three hours lecture-laboratory, three hours laboratory.		
Two hours lecture, one hour laboratory.			Study of the common chord progressions and rhythmic structures of modern popular music. Non-notational approach, including the synthesis of audio loops and samples with "traditional" harmony and how the two combine in modern musical composition and songwriting. Study of new music styles and composition using traditional methods and computer-based compositional software and hardware such as Sibelius, Pro Tools, and Reason. Ability to read musical notation is not required.		
May be taken six times for credit.					
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	MUS 60	AUDIO RECORDING TECHNIQUES	4 Units
Corequisite: Concurrent enrollment in MUS 15C.			Two hours lecture, three hours lecture-laboratory, three hours laboratory.		
Two hours laboratory, one hour supervised practice.			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/火线 interface options. Software programs and compatibility issues. How to produce recordings from start to finish in a home studio.		
May be taken six times for credit.					
Supervised practice in performance methods and techniques in the manner of playing folk guitar.					
MUS 27	SYMPHONY & CONCERTO	4 Units	MUS 62A	JAZZ & POPULAR SOLO VOICE I	1 Unit
Advisory: MUS 1 recommended.			Prerequisite: Enrollment subject to standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to instructor.		
Four hours lecture.			Advisory: MUS 13C or equivalent and concurrent enrollment in MUS 62AL recommended.		
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.			Two hours lecture-laboratory, one hour laboratory.		
MUS 28	OPERA SURVEY	4 Units	Study and performance of contemporary solo vocal repertoire drawn from the popular and jazz idiom. Areas covered include microphone technique, stage presence, musical phrasing, and expression. For students with previous experience in solo singing.		
Advisory: MUS 1 recommended.					
Four hours lecture.					
Development of opera from the early 17th Century to the present. Emphasis on musical elements (compositional technique, performance practice and musical style) and on opera's reflection of the social, religious, political and aesthetic values of each time period. Special focus on works currently being performed by local opera companies.					
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 62AL JAZZ & POP SOLO VOICE LABORATORY	1 Unit	MUS 64C MUSICAL STYLES & ANALYSIS: SALSA & LATIN JAZZ	4 Units
Corequisite: MUS 62A.			
Advisory: Pass/No pass.			
Three hours laboratory.			
Supervised practice of vocal repertoire and technical material assigned in MUS 62A, B and C.			
MUS 62B JAZZ & POPULAR SOLO VOICE II	1 Unit	MUS 65 CAREERS IN MUSIC	3 Units
Prerequisite: MUS 62A.			
Advisory: Concurrent enrollment in MUS 62BL recommended.			
Two hours lecture-laboratory, one hour laboratory.			
Continuation of MUS 62A with additional study and performance of contemporary solo vocal repertoire drawn from the popular and jazz idiom. Areas covered include microphone technique, stage presence, musical phrasing, and expression. For students with previous experience in solo singing.			
MUS 62BL JAZZ & POP SOLO VOICE LABORATORY	1 Unit	MUS 66A INTRODUCTION TO ELECTRONIC MUSIC: SONGWRITING	4 Units
Corequisite: MUS 62B.			
Advisory: Pass/No pass.			
Three hours laboratory.			
Supervised practice of vocal repertoire and technical material assigned in MUS 62A, B and C.			
MUS 62C JAZZ & POP SOLO VOICE III: TECHNOLOGY & THE SINGER	1 Unit	MUS 66B INTRODUCTION TO ELECTRONIC MUSIC: PRODUCTION	4 Units
Prerequisite: MUS 62A or 62B.			
Two hours lecture-laboratory, one hour laboratory.			
May be taken three times for credit.			
The use of recent technological tools to aid the singer in the study and performance of contemporary solo vocal repertory. Areas covered include MIDI, operation of equipment, microphone techniques, stage presence and expressive singing.			
MUS 62CL JAZZ & POP SOLO VOICE LABORATORY	1 Unit	MUS 66C INTRODUCTION TO ELECTRONIC MUSIC: MIXING & MASTERING	4 Units
Corequisite: MUS 62C.			
Advisory: Pass/No pass.			
Three hours laboratory.			
Supervised practice of vocal repertoire and technical material assigned in MUS 62A, B and C.			
MUS 64A MUSIC STYLES & ANALYSIS: JAZZ & SWING	4 Units	Two hours lecture, three hours lecture-laboratory, three hours laboratory.	
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 (,Äu Dixieland,Äu), Big Band, Jump, Swing, Bebop, Hard Bop, Cool, Modal, and Avant-Garde Jazz.	
MUS 64B MUSIC STYLES & ANALYSIS: FUNK & FUSION	4 Units	Two hours lecture, three hours lecture-laboratory, three hours laboratory.	
Two hours lecture, three hours lecture-laboratory, three hours laboratory.		History and analysis of jazz, funk and fusion styles from 1969 to the present. An introduction to the instruments, performers, composers, compositions and recordings that defined/fuse jazz, funk and fusion 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 Pastorius, Pat Metheny, Michael Brecker, David Sanborn, Don Grolnick and Wynton Marsalis. Style periods include Early Jazz Fusion, Early Funk, East Bay Funk, Groove and Smooth Jazz, Modern Fusion and Contemporary Jazz Renaissance.	
MUS 68 CAREERS IN NEW MEDIA	1 Unit	MUS 80 RECORDING ARTS I: SOUND REINFORCEMENT	4 Units
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.			
Advisory: 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 81	RECORDING ARTS II: MULTITRACK RECORDING	3 Units	MUS 85A	MUSIC & MEDIA: 1900-1964	4 Units
Three hours lecture, two hours laboratory.		Two hours lecture, three hours lecture-laboratory, three hours laboratory.			
Introduction to multitrack recording and production using Digidesign's Pro Tools, Steinberg's Cubase VST, Recycle, and Reason. Contemporary production techniques such as beat (loop) construction and editing, timestretching, pitchshifting and quantizing. Basic introduction to plug-in effects in the digital domain. Microphone selection, design, placement, and multitrack recording. Comparison of digital recording techniques using basic ASIO applications such as Cubase, and larger TDM systems such as Pro Tools.		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 81A	RECORDING ARTS II: DIGITAL AUDIO PRODUCTION	4 Units	MUS 85B	MUSIC & MEDIA: THE BEATLES TO TODAY	4 Units
Prerequisite: MUS 80 or the equivalent		Two hours lecture, three hours lecture-laboratory, three hours laboratory			
Two hours lecture, three hours lecture-laboratory, three hours laboratory.		Introduction to multitrack recording and production using Digidesign's Pro Tools. Contemporary production techniques such as beat (loop) construction and editing, timestretching, pitchshifting and quantizing. Basic introduction to digital plug-in effects. Microphone selection, design, placement, and multitrack recording. Introduction of digital recording techniques using smaller, 2 to 8 track Pro Tools LE systems and larger, 24 track TDM systems.			
MUS 81B	RECORDING ART II: AUDIO FOR VIDEO	4 Units	MUS 86	INTRODUCTION TO DIGITAL SOUND, VIDEO & ANIMATION	4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory		Two hours lecture, three 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.		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 82	RECORDING ARTS III: MIXING & MASTERING	3 Units	MUS 90	MUSIC FOR MINORS TRAINING	3 Units
Three hours lecture, two hours laboratory.		Advisory: Not open to students with credit in ART 88, DRAM 86, VART 86, GID 86.			
Three hours lecture, two hours laboratory, three hours laboratory.		Two hours lecture, two hours lecture-laboratory, three hours laboratory.			
Mixing and mastering multitrack recordings for the production of compact discs using Digidesign's Pro Tools and Steinberg's Cubase VST. Application of 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 audio distribution.		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 82A	RECORDING ARTS III: MIXING & MASTERING	4 Units	MUS 102	MUSIC READING	1 Unit
Prerequisite: MUS 60 or 80 and MUS 81A		Two hours lecture-laboratory.			
Two hours lecture, three hours lecture-laboratory, three hours laboratory		Learning to read music through practical application by continuous supervised practice. Limited reference to theoretical matters; concentration on reading notation at sight. Open to all students.			
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 150	MUSIC LABORATORY	.5 Unit	
		MUS 150X		1 Unit	
		MUS 150Y		1.5 Units	
		MUS 150Z		2 Units	
		Three hours laboratory for each unit of credit.			
		May be taken six times for credit.			
		Supervised activities in musical skills and materials related to music courses in which students are currently enrolled.			
MUS 82B	RECORDING ARTS III: PRO TOOLS 101	4 Units	MUS 190	DIRECTED STUDY	.5 Unit
Prerequisite: MUS 60 or MUS 80 and MUS 81A		One and one-half hours laboratory for one-half unit of credit.			
Two hours lecture, three hours lecture-laboratory, three hours laboratory.		Three and one-half hours laboratory for one unit of credit.			
Study and application of Digidesign-approved curriculum leading to Pro Tools 101 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.		Five and one-half hours laboratory for one and one-half unit of credit.			
		Seven and one-half hours laboratory for two units of credit.			
		May be taken for a total of 12 units of credit.			
		Supervised activities in Music and/or Music Performance for students who desire or require additional help in attaining comprehension and competency in learning skills in a music subject area. Supervised by a music faculty member.			

MUSIC PERFORMANCE

Fine Arts & Communications Division

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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. Three hours lecture-laboratory, two hours laboratory.

May be taken six times for credit.

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.

MUSP 20 REPERTORY CHORUS 2 Units

Prerequisite: Enrollment subject to standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director. Three hours lecture-laboratory; two hours laboratory.

May be taken six times for credit.

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

Three hours lecture-laboratory, two hours laboratory.

May be taken six times for credit.

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.

Three hours lecture-laboratory, two hours laboratory.

May be taken six times for credit.

Study, rehearsal and performance of contemporary vocal ensemble repertoire drawn from the popular and jazz idiom. 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.

Three hours lecture-laboratory, two hours laboratory.

May be taken six times for credit.

Study, rehearsal and performance of contemporary vocal ensemble repertoire drawn from the popular and jazz idiom. 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

Three hours lecture/laboratory; two hours laboratory for 2 units. Six hours lecture/laboratory, four hour laboratory for 4 units. Six hours lecture/laboratory, ten hours laboratory for 6 units. Eight hours lecture/laboratory, twelve hours laboratory for 8 units.

May be taken for forty-eight 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. Three hours lecture-laboratory, two hours laboratory.

May be taken six times for credit.

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 skills and rudimentary vocal technique is helpful.

Three hours lecture/laboratory, two hours laboratory for 2 units. Five and one-half hours lecture/laboratory, five hours laboratory for 4 units. Nine hours lecture/laboratory, six hours laboratory for 6 units. Twelve hours lecture/laboratory, eight hours laboratory for 8 units.

May be taken for 48 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.

Three hours lecture/laboratory, two hours laboratory for 2 units of credit. Five and one-half hours lecture/laboratory, five hours laboratory for 4 units of credit. Nine hours lecture/laboratory, six hours laboratory for 6 units of credit. Twelve hours lecture/laboratory, eight hours laboratory for 8 units of credit. May be taken six times for credit.

Training for the performance of choral music primarily from the Renaissance and Baroque periods. Emphasis will be on developing 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.

Three hours lecture-laboratory, two hours laboratory.

May be taken six times for credit.

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.

Three hours lecture-laboratory, two hours laboratory.

May be taken six times for credit.

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 35	STAGE BAND	2 Units
MUSP 30X		4 Units	MUSP 35X		4 Units
MUSP 30Y		6 Units	MUSP 35Y		6 Units
MUSP 30Z		8 Units	MUSP 35Z		8 Units
<p>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. Three hours lecture/laboratory; two hours laboratory. Six hours lecture/laboratory, four hour laboratory. Six hours lecture/laboratory, ten hours laboratory. Eight hours lecture/laboratory, twelve hours laboratory. May be taken for forty-eight units of credit.</p>					
<p>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.</p>					
MUSP 31	CONCERT BAND	2 Units	MUSP 36	JAZZ LABORATORY BAND	2 Units
<p>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. Three hours lecture-laboratory, two hours laboratory. May be taken six times for credit.</p>					
<p>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.</p>					
MUSP 32	SYMPHONIC WIND ENSEMBLE	2 Units	MUSP 37	STRING ORCHESTRA	2 Units
MUSP 32X		4 Units	MUSP 37X		4 Units
MUSP 32Y		6 Units	MUSP 37Y		6 Units
MUSP 32Z		8 Units	MUSP 37Z		8 Units
<p>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. Three hours lecture/laboratory, two hours laboratory for 2 units. Six hours lecture/laboratory, four hour laboratory for 4 units. Six hours lecture/laboratory, ten hours laboratory for 6 units. Eight hours lecture/laboratory, twelve hours laboratory for 8 units. May be taken for forty-eight units of credit.</p>					
<p>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.</p>					
MUSP 33	EVENING JAZZ ENSEMBLE	2 Units	MUSP 38	CHAMBER ORCHESTRA	2 Units
MUSP 33X		4 Units	MUSP 38X		4 Units
MUSP 33Y		6 Units	MUSP 38Y		6 Units
MUSP 33Z		8 Units	MUSP 38Z		8 Units
<p>Prerequisite: Enrollment subject to audition. Three hours lecture/laboratory; two hours laboratory for 2 units. Six hours lecture/laboratory, four hour laboratory for 4 units. Six hours lecture/laboratory, ten hours laboratory for 6 units. Eight hours lecture/laboratory, twelve hours laboratory for 8 units. May be taken for forty-eight units of credit.</p>					
<p>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.</p>					
MUSP 34	REPERTORY JAZZ ENSEMBLE	2 Units	MUSP 39	COLLEGE ORCHESTRA	2 Units
MUSP 34X		4 Units	MUSP 39X		4 Units
MUSP 34Y		6 Units	MUSP 39Y		6 Units
MUSP 34Z		8 Units	MUSP 39Z		8 Units
<p>Prerequisite: MUSP 33 or equivalent. Three hours lecture/laboratory; two hours laboratory for 2 units. Six hours lecture/laboratory, four hour laboratory for 4 units. Six hours lecture/laboratory, ten hours laboratory for 6 units. Eight hours lecture/laboratory, twelve hours laboratory for 8 units. May be taken for forty-eight units of credit.</p>					
<p>Study and preparation of professional level materials suitable for the large jazz ensemble. Attendance at all scheduled performances is mandatory.</p>					

MUSP 40	SYMPHONY ORCHESTRA	2 Units	MUSP 49	REHEARSAL & PERFORMANCE	2 Units
MUSP 40X		4 Units	MUSP 49X		4 Units
MUSP 40Y		6 Units	MUSP 49Y		6 Units
MUSP 40Z		8 Units	MUSP 49Z		8 Units
<p>Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability and technical performance by the student to a level of proficiency determined by a standardized testing procedure. Three hours lecture/laboratory; two hours laboratory for 2 units. Six hours lecture/laboratory, four hour laboratory for 4 units. Six hours lecture/laboratory, ten hours laboratory for 6 units. Eight hours lecture/laboratory, twelve hours laboratory for 8 units.</p>					
<p>May be taken for forty-eight units of credit.</p>					
<p>Study, rehearsal and performance of the great masterworks for symphony orchestra with emphasis on works from the Classical through the Modern era of symphonic composition. Attendance at all scheduled rehearsals and performances are required.</p>					
MUSP 41A-F APPLIED MUSIC & MULTIMEDIA TRAINING	4 Units		MUSP 49S,T REHEARSAL & PERFORMANCE	.5 Unit	
<p>Two hours lecture, three hours lecture-laboratory, three hours laboratory.</p>					
<p>Seminar-style course provides a forum for performing and presenting music and multimedia work, receiving constructive feedback, and encountering a broad diversity of styles in the work of others. All music performance practices are welcome, including electronic and visual media that integrate music. Learn to self-evaluate and critique presented work both in individual performances and in voluntary collaborations.</p>					
MUSP 42 JAZZ COMBO	1 Unit		MUSP 61A-F APPLIED JAZZ TRAINING	2 Units	
<p>Two hours lecture-laboratory, one hour laboratory.</p>					
<p>May be taken six times for credit.</p>					
<p>Reading preparation and optional performance of jazz music for small combo. Attendance at all scheduled performances is required.</p>					
MUSP 43 CONTEMPORARY JAZZ ENSEMBLE	2 Units		MUSP 95 PERFORMANCE PRACTICES IN MUSIC	1 Unit	
<p>Prerequisite: Enrollment subject to audition.</p>			MUSP 95X	1.5 Units	
<p>Three hours lecture/laboratory; two hours rehearsal and performance.</p>			MUSP 95Y	2 Units	
<p>May be taken six times for credit.</p>			<p>Prerequisite: Standardized audition.</p>		
<p>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.</p>			<p>Minimum four hours per week for each unit of credit.</p>		
MUSP 44 RHYTHM & BLUES ENSEMBLE	1 Unit		<p>May be taken six times for credit.</p>		
<p>Advisory: MUS 10 or equivalent recommended.</p>			<p>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.</p>		
<p>Three hours laboratory.</p>			<p>MUSP 96 CONCERT PREPARATION & PRESENTATION</p>		
<p>May be taken six times for credit.</p>			<p>1 Unit</p>		
<p>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.</p>			<p>1.5 Units</p>		
<p>MUSP 45 CHAMBER MUSIC</p>			<p>2 Units</p>		
<p>Three hours lecture-laboratory, two hours supervised practice.</p>			<p>MUSP 96X</p>		
<p>May be taken six times for credit.</p>			<p>2 Units</p>		
<p>Reading, preparation and performance of chamber music literature for various instrumental combinations. Attendance at all performances is required.</p>			<p>Prerequisite: Standardized audition.</p>		
MUSP 45V CHAMBER ENSEMBLE: STRINGS	1 Unit		<p>Minimum four hours per week for each unit of credit.</p>		
<p>Prerequisite: Enrollment subject to audition.</p>			<p>May be taken six times for credit.</p>		
<p>Three hours laboratory, one hour supervised practice.</p>			<p>A laboratory course using techniques and procedures for developing quality musical performances. Attendance at all scheduled performances is required.</p>		
<p>May be taken six times for credit.</p>			<p>MUSP 141A-F APPLIED MUSIC PRACTICUM</p>		
<p>Reading, preparation, and performance of chamber music literature for various percussion instrumental combinations. Attendance at all performances is required.</p>			<p>2 Units</p>		
<p>MUSP 45W CHAMBER ENSEMBLE: WINDS</p>			<p>Corequisite: Concurrent enrollment in MUS 10, 3A/B/C, 4A/B/C or equivalent and at least one music activity course.</p>		
<p>Prerequisite: Enrollment subject to audition.</p>			<p>One-half hour lecture, one and one-half hours lecture-laboratory, five hours laboratory.</p>		
<p>Three hours laboratory, one hour supervised practice.</p>			<p>Individual instruction in voice, piano or instruments. One and one-half hours per week lecture-recital instruction by the college staff and one lesson per week with an approved private instructor chosen by the student. A minimum of 10 such lessons per quarter must be verified.</p>		
<p>May be taken six times for credit.</p>			<p>MUSP 161A-F APPLIED JAZZ PRACTICUM</p>		
<p>Reading, preparation, and performance of chamber music literature for various instrumental combinations. Attendance at all scheduled performances is required.</p>			<p>2 Units</p>		
<p>Prerequisite: Placement performance examination by the college staff to determine competence in solo performance with voice or instrument.</p>			<p>One-half hour lecture, one and one-half hours lecture-laboratory, five hours laboratory.</p>		
<p>Three hours laboratory, one hour supervised practice.</p>			<p>Individual instruction in voice, piano or instruments in jazz style performance. One and one-half hours per week lecture-recital instruction by the college staff and one lesson per week with an approved private instructor chosen by the student. A minimum of 10 such lessons per quarter must be verified.</p>		
<p>May be taken six times for credit.</p>			<p>A minimum of 10 such lessons per quarter must be verified.</p>		

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.

Three hours lecture/laboratory, one and one-half hours laboratory for 2 units. Four hours lecture/laboratory, three hours laboratory for 3 units. Five hours lecture/laboratory, four and one-half hours laboratory for 4 units. Six hours lecture/laboratory, seven and one-half hours laboratory for 5.5 units.

May be taken for a maximum of 33 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.

Three hours lecture/laboratory, one and one-half hours laboratory for 2 units. Four hours lecture/laboratory, three hours laboratory for 3 units. Five hours lecture/laboratory, four and one-half hours laboratory for 4 units. Six hours lecture/laboratory, seven and one-half hours laboratory for 5 units.

May be taken for a maximum of 33 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.

OCEANOGRAPHY

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/divisions/psme/

OCEN 10	GENERAL OCEANOGRAPHY	4 Units
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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 undersea vehicles is included. One Saturday field trip is required.

OCEN 34	HONORS INSTITUTE	1 Unit
SEMINAR IN OCEANOGRAPHY		

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.

Three hours laboratory for each unit of credit.

May be taken for six units 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 & Communications Division

(650) 949-7156

www.foothill.edu/fa/

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.

Six hours laboratory for 2 units. Twelve hours laboratory for 4 units. Twenty-four hours laboratory for 8 units. Forty-eight hours laboratory for 16 units. **May be repeated for up to 96 units.**

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 INSTRUMENTAL 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.

Six hours laboratory for 2 units. Twelve hours laboratory for 4 units. Twenty-four hours laboratory for 8 units. Forty-eight hours laboratory for 16 units. **May be repeated for up to 96 units.**

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.

Six hours laboratory for 2 units. Twelve hours laboratory for 4 units. Twenty-four hours laboratory for 8 units. Forty-eight hours laboratory for 16 units. **May be repeated for up to 96 units.**

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.

Six hours laboratory for 2 units. Twelve hours laboratory for 4 units. Twenty-four hours laboratory for 8 units. Forty-eight hours laboratory for 16 units. **May be repeated for up to 96 units.**

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		2 Units
P A 150Y		4 Units
P A 150Z		16 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

One and one half laboratory for .5 units. Three hours laboratory for 1 unit. Six hours laboratory for 3 units. Nine hours laboratory for 9 units.

May be repeated for up to 96 units.

Supervised activities in performing arts, related to skills and materials of other performing arts courses in which students are currently enrolled.

P A 161	DIRECTED STUDIES	.5 Unit
P A 161X	IN THE PERFORMING ARTS	4 Units
P A 161Y		8 Units
P A 161Z		16 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

One and one half laboratory for .5 units. Three hours laboratory for 1 unit.

Six hours laboratory for 3 units. Nine hours laboratory for 9 units.

May be repeated for up to 96 units.

A directed study 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.

PERSONAL TRAINER

Physical Education & Athletics Division (650) 949-7714
www.foothill.edu/programs/pft/

P T 51	BASIC NUTRITION FOR SPORTS & FITNESS	3 Units
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Three hours lecture

May be taken once for credit.

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
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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
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Two hours lecture, three hours laboratory.

May be taken three times for credit.

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
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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
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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.

P T 56	PRINCIPLES & ANALYSIS OF FLEXIBILITY	4 Units
P T 56X		3 Units
P T 56Y		1 Unit

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) 949-7249
www.foothill.edu/bio/

PHT 50	ORIENTATION TO PHARMACY TECHNOLOGY	3 Units
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Pre-requisite: Admission to Pharmacy Technology Program.
Advisory: High school biology or BIOL 10, and high school algebra. ENGL 1A or ESL 26 recommended.

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 51	BASIC PHARMACEUTICS	4 Units
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Pre-requisite: Admission to the Pharmacy Technology Program.

Corequisite: PHT 50 to be taken concurrently.

Advisory: ENGL 1A or ESL 26 recommended.

Four hours lecture.

An introduction to the pharmacological principles as they are related to and support an understanding of rational drug usage. An understanding of the profound influence of drug laws, standards and regulations.

PHT 52A	INPATIENT DISPENSING	3 Units
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Prerequisite: Admission to Pharmacy Technology Program.

Corequisite: PHT 50 and 51 to be taken concurrently.

Advisory: ENGL 1A or ESL 26 recommended.

Two hours lecture, three hours laboratory and one hour skills.

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 extemporaneous preparations in an inpatient pharmacy.

PHT 52B	ASEPTIC TECHNIQUE & IV PREPARATION	4 Units
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Prerequisite: PHT 52A.

Corequisite: PHT 50, 54A, and 54B to be taken concurrently.

Advisory: ENGL 1A or ESL 26 recommended.

Three hours lecture, three hours laboratory and two hours skills.

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
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Prerequisite: Admission to the Pharmacy Technology Program.

Corequisite: PHT 50, 54A to be taken concurrently.

Advisory: ENGL 1A or ESL 26 recommended.

Three hours lecture, three hours laboratory, one and one half hours internet and library 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	PHT 60B RETAIL CLINICAL	1 Unit
Prerequisite: Admission to Pharmacy Technology Program.		Prerequisite: PHT 60A.	
Advisory: ENGL 1A or ESL 26 recommended.		Advisory: PHT 50, 52A, 54A, 54B, 60A.	
Three hours lecture.		Six hours clinical experience and one hour case studies.	
An introduction to the use of pharmaceutical measuring systems with emphasis on the metric system and intersystem conversions.		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.	
PHT 54B DOSAGE CALCULATIONS B	3 Units	PHT 61 HOME HEALTHCARE SUPPLIES	3 Units
Prerequisite: PHT 54A.		Prerequisite: PHT 61.	
Advisory: ENGL 1A or ESL 26 recommended.		Corequisite: PHT 50, 55A, 55B to be taken concurrently.	
Three hours lecture.		Advisory: ENGL 1A or ESL 26 recommended.	
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.		Two hours lecture, three hours laboratory.	
PHT 55A PHARMACOLOGY A	6 Units	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.	
Prerequisite: PHT 50.			
Advisory: High school biology or BIOL 10, and high school algebra. ENGL 1A or ESL 26 recommended.			
Six hours lecture.			
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.			
PHT 55B PHARMACOLOGY B	6 Units	PHT 62A HOSPITAL CLINICAL	1 Unit
Prerequisite: PHT 55A.		Prerequisite: Admission to Pharmacy Technology Program.	
Advisory: ENGL 1A or ESL 26 recommended.		Six hours clinical experience and one hour case studies.	
Six hours lecture.		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.	
PHT 56A DISPENSING & COMPOUNDING A	4 Units	PHT 62B HOSPITAL CLINICAL	1 Unit
Prerequisite: PHT 50.		Prerequisite: PHT 62A	
Corequisite: PHT 50, 54B to be taken concurrently.		Six hours clinical experience and one hour case studies.	
Advisory: ENGL 1A or ESL 26 recommended.		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.	
Two hours lecture, six hours laboratory.			
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.			
PHT 56B DISPENSING & COMPOUNDING B	3 Units	PHT 200L PHARMACY TECHNICIANS AS A CAREER	1 Unit
Prerequisite: PHT 56A.		One and one half lecture/laboratory.	
Advisory: ENGL 1A or ESL 26 recommended.		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.	
Two hours lecture, three hours laboratory.			
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.			
PHT 60A RETAIL CLINICAL	1 Unit	PHILOSOPHY	
Prerequisite: Admission to the Pharmacy Technology Program.		Business & Social Sciences Division	(650) 949-7322
Corequisite: PHT 50 to be taken concurrently.			www.foothill.edu/bss/
Six hours clinical experience and one hour case studies.			
The practice, in an outpatient environment, of skills developed in didactic and laboratory training. Activities will be performed by the student and evaluated by a preceptor.			
PHIL 1 CRITICAL THINKING	5 Units		
Five hours lecture.			
Inductive and deductive logic, evaluation of evidence, statistics, fallacies, language usage and skills in the analysis and construction of arguments. [CAN PHIL 6]			
PHIL 2 INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY	4 Units		
Four hours lecture.			
Social and political philosophies of classical, modern and contemporary thinkers.			
PHIL 4 INTRODUCTION TO PHILOSOPHY	4 Units		
Four hours lecture.			
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]			
PHIL 7 INTRODUCTION TO SYMBOLIC LOGIC	5 Units		
Five hours lecture.			
Use of logic as a tool for analyzing arguments. Development of formal proof techniques including quantification theory.			

PHIL 8	ETHICS	5 Units
Five hours lecture.		
Standards of right and wrong. Concepts of good, duty, egoism, altruism, freedom, personal and social responsibility. Responsible decision making. [CAN PHIL 4]		
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART	4 Units
Four hours lecture.		
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.		
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES TO ST. THOMAS	4 Units
Four hours lecture.		
Examination of Western philosophy with an emphasis on Greek philosophy from Thales through Aristotle and selected medieval philosophers from Augustine to St. Thomas Aquinas.		
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT	4 Units
Four hours lecture.		
Examination of Western philosophy in the early modern period with an emphasis on major philosophers such as Descartes, Hume and Kant.		
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.		
One hour lecture.		
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
One hour lecture.		
May be taken six times for credit.		
Seminar in philosophical 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
One hour lecture for each unit of credit.		
May be taken for a maximum of six units.		
Advanced readings research, and/or project in philosophy. Specific topics determined in consultation with instructor.		

PHOTOGRAPHY		
Fine Arts & Communications Division		(650) 949-7082
www.foothill.edu/fa/		
PHOT 1	BEGINNING PHOTOGRAPHY	3 Units
Advisory: Students taking this course to satisfy the transfer General Education requirement in humanities must concurrently enroll in PHOT 1LX for 1 unit.		
Two hours lecture, three hours 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 required.		
Three hours laboratory.		
Supervised use of photographic darkroom equipment and procedures for the beginning photography student. Hours to be arranged.		
PHOT 2	INTERMEDIATE PHOTOGRAPHY	3 Units
Prerequisite: PHOT 1 or equivalent.		
Two hours lecture, three hours laboratory.		
May be taken two times for credit.		
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	INTERMEDIATE PHOTO PRODUCTION LAB	1 Unit
Corequisite: Enrollment in 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 PHOTOGRAPHIC EXPRESSION	3 Units
Three hours lecture.		
Introduction to the elements of photographic image-making, including use of light, color and compositional elements. Instruction in basic still camera operations. Introduction to the heritage of photography, the contributions to its development by peoples of diverse ethnic and cultural background, and the evolution of different photographic genre. Survey of photography's role in society and culture.		
PHOT 10	HISTORY OF PHOTOGRAPHY	4 Units
Advisory: PHOT 1 or equivalent.		
Three hours lecture, three hours lab.		
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 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	3 Units
Formerly: PHOT 59		
Three hours lecture, three hours lab.		
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.		

PHOT 13	EXPERIMENTAL PHOTOGRAPHY	3 Units	PHOT 60	PHOTOGRAPHY & THE NEW TECHNOLOGIES	3 Units
<i>Formerly PHOT 56.</i>			<i>Advisory: PHOT 1 or equivalent experience.</i>		
<i>Advisory: PHOT 2 recommended.</i>			<i>Two hours lecture, three hours Lab.</i>		
<i>Two hours lecture, three hours Lab.</i>			<i>May be taken three times for credit.</i>		
<i>May be taken three times for credit.</i>			<i>Exploration of experimental approaches to creative photography, using silver and nonsilver processes. Introduction to digital manipulation of images.</i>		
PHOT 34	HONORS INSTITUTE SEMINAR IN PHOTOGRAPHY	1 Unit	PHOT 63	PHOTOJOURNALISM	3 Units
<i>Prerequisite: Membership in the Honors Institute.</i>			<i>Prerequisite: PHOT 2.</i>		
<i>One hour lecture.</i>			<i>Two hours lecture, three hours laboratory.</i>		
<i>May be taken twice for credit.</i>			<i>May be taken four times for credit.</i>		
<i>A seminar in directed readings, discussions and projects in photography. Specific topics to be determined by the instructor.</i>			<i>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.</i>		
PHOT 50	ADVANCED PHOTOGRAPHY	3 Units	PHOT 65A	INTRODUCTION TO DIGITAL IMAGING	4 Units
<i>Prerequisite: PHOT 2.</i>			<i>Prerequisite: PHOT 1, 5 or equivalent.</i>		
<i>Two hours lecture, three hours laboratory.</i>			<i>Two hours lecture, three hours lecture/laboratory, 1.5 hours lab.</i>		
<i>May be taken three times for credit.</i>			<i>May be taken 3 times for credit.</i>		
<i>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.</i>			<i>Introduction 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.</i>		
PHOT 51	ZONE SYSTEM PHOTOGRAPHY	3 Units	PHOT 65B	INTERMEDIATE DIGITAL IMAGING	4 Units
<i>Prerequisite: PHOT 2.</i>			<i>Prerequisite: PHOT 65A or equivalent experience.</i>		
<i>Two hours lecture, three hours laboratory.</i>			<i>Two hours lecture, three hours lecture/laboratory, 1.5 hours laboratory</i>		
<i>May be taken three times for credit.</i>			<i>May be taken three times for credit.</i>		
<i>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.</i>			<i>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.</i>		
PHOT 53	INTRODUCTION TO COLOR SLIDES	3 Units	PHOT 65C	ADVANCED DIGITAL IMAGING	3 Units
<i>Prerequisite: PHOT 2.</i>			<i>Prerequisite: PHOT 65B or equivalent.</i>		
<i>Two hours lecture, three hours laboratory.</i>			<i>Two hours lecture, three hours lecture-laboratory, one and one-half hours laboratory.</i>		
<i>May be taken three times for credit.</i>			<i>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.</i>		
<i>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.</i>					
PHOT 55	SPECIAL PROJECTS IN PHOTOGRAPHY	2 Units	PHOT 67	CAREERS IN THE VISUAL ARTS	2 Units
<i>Prerequisite: PHOT 2 or 65B.</i>			<i>Advisory: Not open to students with credit in GID 60, VART 50.</i>		
<i>One hour lecture, three hours laboratory.</i>			<i>Two hours lecture.</i>		
<i>May be taken six times for credit.</i>			<i>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</i>		
<i>Specific topics in creative, technical or applied photography must be determined in consultation with instructor. A limited area is explored in depth.</i>					
PHOT 57	PHOTOGRAPHIC PORTFOLIO	3 Units	PHOT 68	SPECIAL TOPICS IN PHOTOGRAPHY	1 Unit
<i>Prerequisite: PHOT 1, 2, 50, 59 or PHOT 5, 65A, 65B, 65C, inclusive, or instructor's permission.</i>			<i>Advisory: PHOT 1 or 65A recommended.</i>		
<i>One hours lecture, three hours laboratory.</i>			<i>One hour lecture.</i>		
<i>May be taken three times for credit.</i>			<i>May be taken six times for credit.</i>		
<i>Organization and assembly of photographic portfolio to meet the qualifications for an A.A. Degree in Photography. It requires a contractual agreement with photography instructor to initiate a portfolio project with final review by instructor. Develop support materials for applications and exhibitions. Student must share work with photography community through exhibition or other methods of display.</i>			<i>Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s).</i>		

PHOT 70	INTRODUCTION TO COLOR PHOTOGRAPHY	3 Units	PHOT 130	PRESENTING, PRESERVING & RESTORING PHOTOGRAPHS	3 Units
Prerequisite: PHOT 2.			Advisory: PHOT 1 or PHOT 65A.		
Two hours lecture, three hours laboratory.			Two hour lecture, three hours laboratory.		
May be taken three times for credit.			May be taken six times for credit.		
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.			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 71	THE PHOTOGRAPHIC BOOK	3 Units	PHOT 150	PHOTOGRAPHY PRODUCTION	.5 Unit
Prerequisite: PHOT 1, 65A, and 65B, or equivalent experience.			PHOT 150X	LABORATORY	1 Unit
Two hours lecture, three hours laboratory.			PHOT 150Y		2 Units
May be taken three times for credit.			PHOT 150Z		3 Units
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.			Corequisite: Concurrent enrollment in a photography course requiring laboratory access.		
PHOT 72	DIGITAL CAMERA TECHNIQUE	3 Units	PHOT 150: Two hours laboratory for .5 unit. PHOT 150X: Four hours laboratory for 1 unit. PHOT 150Y: Eight hours laboratory for 2 units. PHOT 150Z: Twelve hours laboratory for 3 units.		
Prerequisite: PHOT 65A or equivalent experience.			May be taken for up to 18 units of credit.		
Two hours lecture, three hours laboratory.			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.		
Exploration of the digital camera in multiple formats. Understanding the current tools and develop skill in imagemaking in the digital realm. Issues unique to digital like workflow, archiving, image resolution as well as basic photographic concerns such as composition and visual communication will be explored.					
PHOT 74	STUDIO PHOTOGRAPHY TECHNIQUES	3 Units	PHOT 180	PHOTOGRAPHIC PRACTICES	.5 Unit
Prerequisite: PHOT 1, PHOT 2.			PHOT 180X		1 Unit
Two hours lecture, three hours laboratory.			PHOT 180Y		2 Units
May be taken three times for credit.			PHOT 180Z		3 Units
Introduction and overview to large format (view camera) and lighting; exploration of photographic practices in a studio environment; emphasis on developing effective skills and techniques necessary to begin a career in studio photography.			Corequisite: Concurrent enrollment in a photography course requiring laboratory access.		
PHOT 78	FIELD STUDY IN PHOTOGRAPHY	1 Unit	PHOT 180: Two hours laboratory for .5 unit. PHOT 180X: Four hours laboratory for 1 unit. PHOT 180Y: Eight hours laboratory for 2 units. PHOT 180Z: Twelve hours laboratory for 3 units.		
Advisory: PHOT 1 or 65A recommended.			May be taken for up to 18 units of credit.		
One hour lecture.			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.		
May be taken six times for credit.					
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	PHOT 190	DIRECTED STUDY	.5 Unit
Advisory: Completion of entry-level photography courses recommended.			PHOT 190X		1 Unit
Six hours lecture/laboratory, three hours laboratory.			PHOT 190Y		1.5 Units
May be taken three times for credit.			PHOT 190Z		2 Units
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.			Prerequisite: PHOT 1 or PHOT 5 or equivalent.		
PHOT 125	PHOTOGRAPHIC LAB MANAGEMENT	3 Units	Advisory: Pass/No Pass.		
Advisory: Completion of beginning photography class recommended.			PHOT 190: One-half hour lecture, one and one-half hours laboratory for .5 unit. PHOT 190X: One-half hour lecture, three and one-half hours laboratory for 1 unit. PHOT 190Y: One hour lecture, six hours laboratory for 2 units. PHOT 190Z: Two hours lecture, nine and one half-hours laboratory for 3 units.		
Three hours lecture.			May be repeated for up to 12 units of credit.		
A self-paced online 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.			Directed study for students who desire or require additional help in attaining comprehension and competency in learning skills in a photographic area.		

PHYSICAL SCIENCES, MATHEMATICS & ENGINEERING

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/la/

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. One hour lecture.

May be taken three times for credit.

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.

PHYSICS

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/divisions/psme/

PHYS 2A GENERAL PHYSICS 5 Units

Prerequisite: MATH 51 and 105.

Three hours lecture, one hour problem session, one hour instruction for laboratory, two hours laboratory, one hour computer terminal time.

Lectures, demonstrations, and problems in mechanics; properties of matter. [PHYS 2A & 2B = CAN PHYS 2; PHYS 2A & 2B & 2C = CAN PHYS SEQ A]

PHYS 2B GENERAL PHYSICS 5 Units

Prerequisite: PHYS 2A.

Three hours lecture, one hour problem session, one hour instruction for laboratory, two hours laboratory, one hour computer terminal time.

Lectures, demonstrations, and problems in thermal physics; electricity and magnetism. [PHYS 2A & 2B = CAN PHYS 2; PHYS 2B & 2C = CAN PHYS 4; PHYS 2A & 2B & 2C = CAN PHYS SEQ A]

PHYS 2C GENERAL PHYSICS 5 Units

Prerequisite: PHYS 2B.

Three hours lecture, one hour problem session, one hour instruction for laboratory, two hours laboratory, one hour computer terminal time.

Lectures, demonstrations, and problems in waves; optics; introductory quantum mechanics; atomic physics; and nuclear physics. [PHYS 2B & 2C = CAN PHYS 4; PHYS 2A & 2B & 2C = CAN PHYS SEQ A]

PHYS 4A GENERAL PHYSICS (CALCULUS) 5 Units

Prerequisite: High school physics or PHYS 60 or PHYS 2A and 2B; MATH 1B (may be taken concurrently).

Four hours lecture, one hour problem session, one hour preparation for laboratory, two hours laboratory, one hour computer terminal time.

Mathematics-physics interrelationships, classical Newtonian mechanics. [CAN PHYS 8; PHYS 4A & 4B & 4C = CAN PHYS SEQ B; PHYS 4A & 4B & 4C & 4D = CAN PHYS SEQ C]

PHYS 4B GENERAL PHYSICS (CALCULUS) 5 Units

Prerequisite: PHYS 4A, MATH 1C (may be taken concurrently).

Four hours lecture, one hour problem session, one hour preparation for laboratory, two hours laboratory, one hour computer terminal time.

Classical electricity and magnetism. [CAN PHYS 12; PHYS 4A & 4B & 4C = CAN PHYS SEQ B; PHYS 4A & 4B & 4C & 4D = CAN PHYS SEQ C]

PHYS 4C GENERAL PHYSICS (CALCULUS) 5 Units

Prerequisite: PHYS 4B, MATH 1D (may be taken concurrently).

Four hours lecture, one hour problem session, one hour preparation for laboratory, two hours laboratory, one hour computer terminal time.

Thermodynamics; mechanical, acoustical, and electromagnetic waves; optics. [CAN PHYS 14; PHYS 4A & 4B & 4C = CAN PHYS SEQ B; PHYS 4A & 4B & 4C & 4D = CAN PHYS SEQ C]

PHYS 4D GENERAL PHYSICS (CALCULUS) 5 Units

Prerequisite: PHYS 4C, MATH 2A (may be taken concurrently).

Four hours lecture, one hour problem session, one hour preparation for laboratory, two hours laboratory, one hour computer terminal time.

Special relativity, statistical mechanics, quantum mechanics, atomic physics, nuclear physics, particle physics. [CAN PHYS 16; PHYS 4A & 4B & 4C & 4D = CAN PHYS SEQ C]

PHYS 6 INTRODUCTORY PHYSICS 5 Units

Formerly PHYS 60.

Prerequisite: MATH 49, MATH 1A (may be taken concurrently).

Five hours lecture.

Lectures, demonstrations, and problems in mechanics, electricity and magnetism.

PHYS 10 CONCEPTS OF PHYSICS 5 Units

Prerequisite: High school algebra or MATH 105.

Five hours lecture, one hour preparation for laboratory, two hours laboratory.

Fundamental concepts of classical physics as applied to daily life from a non-mathematical perspective. Emphasis on verbal logic, critical analysis, and rational thought. Focus on comprehension, conceptual understanding of physics rules rather than computation. Includes mechanics, electromagnetism, thermal, optics, and atomic physics. Demonstrations and examples. Three hours hands-on laboratory each week.

PHYS 12 INTRODUCTION TO MODERN PHYSICS 5 Units

Five hours lecture.

Non-mathematical introduction to the ideas of modern physics designed for those not majoring in the physical sciences. After a brief introduction to the history and ideas of physics in general, the course focuses on three areas of modern physics which have revolutionized our understanding of nature: thermodynamics and the concept of entropy, Einstein's special and general theories of relativity, and quantum mechanics. The key ideas in these areas are explained using demonstrations, analogies, and examples drawn, whenever possible, from the student's own experience. We also examine (briefly) the impact these physics ideas have had on other fields, such as poetry, literature and music. No background in science or math is assumed.

PHYS 34 HONORS INSTITUTE SEMINAR IN PHYSICS 1 Unit

Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in physics. Specific topics to be determined by the instructor.

PHYS 36 SPECIAL PROJECTS IN PHYSICS 1 Unit

PHYS 36X 2 Units

PHYS 36Y 3 Units

Advisory: High interest in the pursuit of physics knowledge. Previous experience in physics recommended.

Three hours laboratory for each unit of credit.

May be taken for six units of credit.

Advanced readings and projects in physics. Specific projects determined on consultation with instructor. Written reports required. Enrollment generally limited to those students enrolled in the PHYS 4 sequence.

PHYS 165 CONCEPTUAL PHYSICS FOR ATYP 5 Units

Prerequisite: Qualifying score of the Foothill Assessment Test and recommendation of high school principal.

Three hours lecture, four hours lecture-laboratory.

A perceptive view of the surrounding physical world as an introduction to the physical basis of our everyday environment. The conceptual framework of physics as a basis for understanding applied mathematics. Topics include motion, sound, light, electricity and magnetism.

PYHS 190	DIRECTED STUDY	.5 Unit
PYHS 190X		1 Unit
PYHS 190Y		1.5 Units
PYHS 190Z		2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.

May be taken six times for credit.

For students who desire or require additional help in attaining comprehension and competency in learning skills.

POLITICAL SCIENCE

Business & Social Sciences Division (650) 949-7322
www.foothill.edu/bss/

POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	5 Units
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Five hours lecture.

Contemporary analysis of the structure and operation of the American government and political system at national, state, and local levels. [CAN GOVT 2]

POLI 2	COMPARATIVE GOVERNMENT & POLITICS	4 Units
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Four hours lecture.

The variety of political forms, the theory of political differentiation and development, and the politics and government structures in industrialized democracies, communist systems, and developing nations.

POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY	5 Units
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Five hours lecture.

Introduction to political philosophy and political theory. Focus on the history of political thought and the development of political ideologies and forms of the state. Concepts of the state of nature, human nature, natural law and natural rights explored as integral parts of the range of political philosophers addressed.

POLI 5	RUSSIAN & EAST EUROPEAN POLITICS	4 Units
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Four hours lecture.

Historical and contemporary analysis of Russian and East European (Hungarian, Polish and Czech-Slovak) political institutions and political cultures. Focus on transitology, an examination of the factors related to each country's contemporary political transition.

POLI 7	AMERICAN GOVERNMENT & POLITICS FROM A BLACK PERSPECTIVE	5 Units
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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
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Formerly POLI 53.

Prerequisites: Eligibility for English 1A, ESL 26 or equivalent.

Advisory: Not open to students with credit in GERM 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
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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 15	INTERNATIONAL RELATIONS/ WORLD POLITICS	4 Units
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Four hours lecture.

Survey of the basic elements of international relations, including the factors of sovereignty, nationalism, and national policies. The international struggle for power and for order. World politics with emphasis on both the superpowers and the Third World countries.

POLI 24	20TH CENTURY AMERICAN FOREIGN POLICY	4 Units
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Prerequisite: None. 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
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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 POLITICAL SCIENCE	1 Unit
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One hour lecture.

May be taken six times for credit.

Seminar in political science readings, research, critical techniques and practice. Specific topics vary.

POLI 36	SPECIAL PROJECTS IN POLITICAL SCIENCE	1 Unit
POLI 36X		2 Units
POLI 36Y		3 Units
POLI 36Z		4 Units

One hour lecture for each unit of credit.

May be taken for a maximum of six units.

Advanced readings, research and/or project in political science. Specific topics determined in consultation with instructor.

PRIMARY CARE ASSOCIATE

Biological & Health Sciences Division (650) 725-6959
www.foothill.edu/bio/programs/primary/

P C 80	FAMILY MEDICINE DIDACTIC	14 Units
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Prerequisite: Admission to the Primary Care Associate Program.

Nine hours lecture, ten hours lecture-laboratory and two hours

collaborative learning.

Introduction to concepts of family medicine, including the recognition of signs, symptoms, and the management of common medical problems.

P C 80P	FAMILY MEDICINE CLINICAL	5 Units
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Prerequisite: Admission to the Primary Care Associate Program.

Ten hours laboratory, twelve hours clinic.

Clinical experience in taking a comprehensive patient history, performing a complete physical examination, ordering and interpreting the significance of pertinent laboratory studies and appropriately recording the information in the patient's medical record.

P C 81	FAMILY MEDICINE DIDACTIC	8 Units
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Prerequisite: PC 80. Successful completion of previous didactic course in the Primary Care Associate Program.

Eight hours lecture and two hours collaborative learning.

Expansion of medical concepts presented in PC 80 with a particular focus on the impact of disease on family functions, women's health care, and diseases related to cardiovascular and neurological systems.

P C 81P FAMILY MEDICINE CLINICAL 8 Units
 Prerequisite: PC 80P. Successful completion of previous clinical courses in the Primary Care Associate Program.
 Twenty-five hours clinical, twelve hours laboratory and two hours field study. Clinical experience through which the student develops clinical skills of a PA or NP: Taking medical histories, performing physical examinations, ordering and performing laboratory studies, interpreting findings, recording patient information, and reporting findings to the physician preceptor.

P C 82 FAMILY MEDICINE DIDACTIC 8 Units
 Prerequisite: PC 81. Successful completion of previous didactic courses in the Primary Care Associate Program.
 Eight hours lecture and two hours collaborative learning.
 Expansion of medical concepts presented in PC 81 with a particular focus on common problems related to geriatrics, chronic disease management, outpatient care, occupational health, oncology, human immunodeficiency virus, musculoskeletal problems, and approaches to these conditions.

P C 82P FAMILY MEDICINE CLINICAL 9 Units
 Prerequisite: PC 81P. Successful completion of previous clinical courses in the Primary Care Associate Program.
 Thirty-two hours preceptor-clinic, twelve hours laboratory and two hours field study.

This is a continuation of PC 81P.

P C 83 FAMILY MEDICINE DIDACTIC 6 Units
 Prerequisite: PC 82.
 Six hours lecture and two hours collaborative learning.
 Integration of medical concepts presented in previous didactic courses and the skills needed to develop a differential diagnosis, assessment, and plan for diseases or problems related to emergency medicine/surgery, psychiatry, musculoskeletal problems, genitourinary, human sexuality, pediatrics.

P C 83P FAMILY MEDICINE CLINICAL 9 Units
 Prerequisite: PC 82P. Successful completion of previous clinical courses in Primary Care Associate Program.
 Thirty-two hours preceptor-clinic, twelve hours laboratory and two hours field study.

Continuation of PC 82P.

P C 84 FAMILY MEDICINE DIDACTIC 8 Units
 Prerequisite: PC 83.
 Eight hours lecture and two hours collaborative learning.
 Integration of medical concepts presented in previous didactic courses and clinical instruction. Emphasis will be placed on synthesis and application of medical knowledge in the management of common clinical conditions encountered in primary care and family practice settings.

P C 84P FAMILY MEDICINE CLINICAL 9 Units
 Prerequisite: PC 83P. Successful completion of previous clinical courses in the Primary Care Associate Program.
 Thirty-two hours Preceptor-Clinic, twelve hours laboratory and two hours field study.

This is a continuation of PC 83P.

P C 85 SPECIAL CLINICAL PROJECTS IN PRIMARY CARE MEDICINE 4 Units
 P C 85X 5 Units
 P C 85Y 6 Units
 PC 85: Twenty hours clinical practicum. PC 85X: Twenty-five hours clinical practicum. PC 85Y: Thirty hours clinical practicum
 A clinical preceptorship designed to provide experience in selected medical settings.

P C 86 SPECIAL DIDACTIC PROJECTS IN PRIMARY CARE MEDICINE 4 Units
 P C 86X 5 Units
 P C 86Y 6 Units
 Prerequisite: Successful completion of previous didactic courses in the Primary Care Associate Program.
 P C 86: Twenty hours didactic. P C 86X: Twenty-five hours didactic. P C 86Y: Thirty hours didactic.
 Projects in selected medical topics in primary care medicine.

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 PSYCHOBIOLOGY 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
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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
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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
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One hour lecture.

May be taken six times for credit.

Seminar in psychological readings, research, critical techniques and practice. Specific topics vary.

PSYC 36	SPECIAL PROJECTS IN PSYCHOLOGY	1 Unit
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PSYC 36X **2 Units**

PSYC 36Y **3 Units**

PSYC 36Z **4 Units**

PSYC 36 One hour lecture. PSYC 36X Two hours lecture. PSYC 36Y Three hours lecture. PSYC 36Z Four hours lecture.

May be taken for a maximum of six units.

Advanced readings, research and/or project in psychology. Specific topics determined in consultation with instructor.

PSYC 40	HUMAN DEVELOPMENT	4 Units
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Four hours lecture.

Intellectual, social and personality development through the life span.

PSYC 49	HUMAN SEXUALITY	4 Units
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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
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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) 949-7595
www.foothill.edu/bio/programs/radther/

RTT 57	ORIENTATION TO RADIATION THERAPY TECHNOLOGY	2 Units
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Prerequisite: Admission to Radiation Therapy Technology Program.
Two hours lecture.

Overview of the foundations in radiation therapy and the practitioner's role in the health care delivery system. Principles, practices and policies of the educational program, health care organizations, principles of radiation and health safety and professional responsibilities of the radiation therapist will be discussed and examined.

RTT 58A	FUNDAMENTALS OF RADIAOLOGIC TECHNOLOGY FOR RADIATION THERAPISTS	3 Units
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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 RADIATION TECHNOLOGY FOR RADIATION THERAPISTS	3 Units
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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.

RTT 59A	TECHNICAL RADIATION ONCOLOGY	3 Units
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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
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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
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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
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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
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Prerequisite: RTT 61A.
Three hours lecture.
Not repeatable.
Fundamentals of nuclear physics and radioactive decay, brachytherapy, radiation protection, and health physics.

RTT 62B RADIATION BIOLOGY	3 Units	RTT 72A DOSIMETRY I	3 Units
Prerequisite: RTT 61B.		Prerequisite: RTT 59B. Admission to Radiation Therapy Technology Program.	
Three hours lecture.		Three hours lecture.	
Not repeatable.		Basic concepts of clinical dosimetry, including terminology, use of tables and graphs and dose calculations.	
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	RTT 72B DOSIMETRY II	3 Units
Prerequisite: RTT 64C.		Prerequisite: RTT 72A.	
Three hours lecture.		Three hours lecture.	
Not repeatable.		Not repeatable.	
Consolidation of all aspects of radiation therapy technology in preparation for program completion.		Advanced clinical dosimetry concepts, including terminology, use of tables and graphs, dose calculations and construction of manual and computer-generated treatment plans.	
RTT 64A CLINICAL RADIATION ONCOLOGY I	4 Units	RTT 73A CLINICAL PRACTICUM	7 Units
Prerequisite: RTT 60.		Prerequisite: RTT 71C.	
Four hours lecture.		Thirty-two hours clinic and two hours case study research.	
Not repeatable.		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.	
Oncologic pathology and principles of clinical oncology and treatment with concentration on pelvis, breast, head and neck, and lung tumors. Anatomical review, treatment reactions and management, lymphatic drainage, simulation and treatment. Discussion of oncologic emergencies.			
RTT 64B CLINICAL RADIATION ONCOLOGY II	4 Units	RTT 73B CLINICAL PRACTICUM	7 Units
Four hours lecture.		Prerequisite: RTT 73A.	
Not repeatable.		Thirty-two hours clinic and two hours case study research.	
Principles of clinical oncology and treatment with concentration on skin, central nervous system, malignant lymphomas, gastric and esophageal tumors. Anatomical review, treatment reactions and management, lymphatic drainage, simulation and treatment.		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 64C CLINICAL RADIATION ONCOLOGY III	4 Units	RTT 73C CLINICAL PRACTICUM	7 Units
Prerequisite: RTT 64B.		Prerequisite: RTT 73B.	
Four hours lecture.		Thirty-two hours clinic and two hours case study research.	
Not repeatable.		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.	
Principles of clinical oncology and treatment with concentration on leukemias, multiple myeloma, soft tissue sarcomas, bone tumors and pediatric solid tumors. Anatomical review, treatment reactions and management, lymphatic drainage, simulation and treatment.			
RTT 71A CLINICAL PRACTICUM	3 Units	RTT 73D CLINICAL PRACTICUM	6 Units
Prerequisite: Admission to the Radiation Therapy Technology Program.		Prerequisite: RTT 73C.	
Sixteen hours laboratory and two hours case study research.		Twenty-nine hours clinic and 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.		Advanced clinical participation; students assist in treatment planning, simulation, and concentration on completing procedures under supervision but without assistance, using independent judgment.	
RTT 71B CLINICAL PRACTICUM	3 Units	RTT 80 ADDITIONAL CLINICAL PRACTICUM	1 Unit
Prerequisite: RTT 71A.		Prerequisite: RTT 73D or subsequent clinical practicum.	
Sixteen hours laboratory and two hours case study research.		Four hours laboratory. May be taken six times for credit.	
Radiation therapy department rotation, including experience in simulation and/or treatment procedures with progressive skill development. Includes on-campus lab practicum.		Advanced clinical participation; students assist in patient treatment, simulation, and treatment planning.	
RTT 71C CLINICAL PRACTICUM	3 Units	RTT 200L INTRODUCTION TO RADIATION THERAPY	1 Unit
Prerequisite: RTT 71B.		Two hours lecture-laboratory.	
Sixteen hours laboratory and two hours case study research.		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.	
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 and 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.			

RADIO

Fine Arts & Communications Division (650) 949-7555
www.foothill.edu/programs/radio.html

RAD 70	SPECIAL PROJECTS IN RADIO	1 Unit
RAD 70X		2 Units
RAD 70Y		3 Units
RAD 70Z		4 Units

Three hours of laboratory for each unit of credit.

May be taken for a total of forty-eight units.

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
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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
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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
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Advisory: Concurrent enrollment in RAD 80 recommended.

One hour lecture, six hours laboratory.

Elementary scripting, voicing, and recording of information 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
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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
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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
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Advisory: RAD 90A recommended.

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
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Advisory: Radio 90A recommended.

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
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Advisory: RAD 90A recommended.

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
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Advisory: RAD 90A recommended.

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
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Advisory: RAD 90A recommended.

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
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Advisory: RAD 90A recommended.

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	MUSIC INDUSTRY RELATIONS & ENGINEERING	3 Units
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Advisory: RAD 90A recommended.

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 93B	MUSIC INDUSTRY RELATIONS & ENGINEERING	3 Units
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Advisory: RAD 90A recommended.

One hour lecture, six hours laboratory.

Intermediate music industry relations and engineering. Soliciting 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 93C	MUSIC INDUSTRY RELATIONS & ENGINEERING	3 Units
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Advisory: RAD 90A recommended.

One hour lecture, six hours laboratory.

Advanced music industry relations and engineering. Soliciting 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 93D	MUSIC INDUSTRY RELATIONS & ENGINEERING	3 Units
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Advisory: RAD 90A recommended.

One hour lecture, six hours laboratory.

Beginning to advanced music industry relations and engineering. Soliciting 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 190	DIRECTED STUDY	.5 Unit
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1 Unit

RAD 190X		1.5 Units
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2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.

May be taken for a total of twenty-four units.

For students who desire or require additional help in attaining comprehension and competency in learning skills.

RADIOLOGIC TECHNOLOGY

Biological & Health Sciences Division (650) 949-7249
www.foothill.edu/bio/programs/radtech/

R T 50 ORIENTATION TO RADIATION SCIENCE TECHNOLOGIES 2 Units

Prerequisite: 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 50A LAW & ETHICS IN MEDICAL IMAGING 2 Units

Prerequisite: RT 50

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 50B BASIC PATIENT CARE FOR IMAGING TECHNOLOGY 2 Units

Prerequisite: RT 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 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: RT 51A.

Three hours lecture.

Continuation of RT 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: RT 51B.

Three hours lecture.

Continuation of RT 51B; radiographic anatomy, positioning and terminology, related to the skull, vertebral column, bony thorax, myelography and arthrography.

R T 51D FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY 3 Units

Prerequisite: RT 51C.

Three hours lecture.

Radiographic Pathology of the respiratory, osseous, urinary, gastrointestinal, central nervous, and hemopoietic system. Review of Ethics and Law. CPR certification.

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: RT 52A.

Three hours lecture.

Continuation of RT 52A, including physics, technique, processing and protection.

R T 52C PRINCIPLES OF RADIOLOGIC TECHNOLOGY 3 Units

Prerequisite: RT 52B.

Three hours lecture.

Continuation of RT 52B. Expansion of principles of X-ray physics, technique and protection.

R T 52D PRINCIPLES OF RADIOLOGIC TECHNOLOGY 2 Units

Prerequisite: RT 52C.

Two hours lecture.

Review image production and radiographic technical factors. Introduction to digital radiography and Picture Archiving Computer Systems (PACS).

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 and 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 53AL APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY 1 Unit

Prerequisite: Admission to Radiologic Technology Program.

Three hours laboratory.

Applied radiography; includes structured lab activities in processing, film analysis, basic positioning, patient care, equipment and radiographic experiment.

R T 53B APPLIED RADIOGRAPHIC TECHNOLOGY 3 Units

Prerequisite: RT 53A.

Sixteen hours laboratory and two hours case study research.

Continuation of applied radiography with emphasis on clinical skill development for positioning, processing, principles of exposure, film analyses, hospital observation.

R T 53BL APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY 1 Unit

Prerequisite: RT 53A.

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 53C APPLIED RADIOGRAPHIC TECHNOLOGY 3 Units

Prerequisite: RT 53B.

Sixteen hours laboratory and 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: RT 53B.

Three hours laboratory.

Continuation of structured lab skill development in positioning, technique selection, protection, clinical observation and practicum.

R T 53D	RADIOGRAPHIC CLINICAL PRACTICUM	8 Units
Prerequisite: Completion of RT 51C, 52C and 53C.		
Twenty-seven hours laboratory and 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 and analysis (eight-week summer intersession).		
R T 61B	RADIOLOGY RESEARCH PROJECT	1 Unit
Prerequisite: RT 62A and 63A.		
One hour lecture and 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.		
R T 62A	RADIOGRAPHIC POSITIONING	3 Units
Prerequisite: RT 52D and 53D.		
Three hours lecture.		
Specialized radiographic procedures related to Magnetic Resonance Imaging and Computerized 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: RT 62A and 63A.		
Three hours lecture.		
Continuation of RT 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 RADIOGRAPHIC POSITIONING	3 Units
Prerequisite: RT 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 RADIOLOGIC TECHNOLOGY	1 Unit
Prerequisite: RT 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 RADIOGRAPHIC PRINCIPLES	3 Units
Prerequisite: RT 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	RADIOGRAPHIC CLINICAL PRACTICUM	7.5 Units
Prerequisite: RT 52D and 53D.		
Thirty-two hours laboratory and two hours case study research.		
Advanced 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	RADIOGRAPHIC CLINICAL PRACTICUM	7.5 Units
Prerequisite: RT 62A and 63A.		
Thirty-one hours laboratory and two hours case study research.		
Special radiographic equipment, imaging modalities, and special radiographic procedures. Radiographic anatomy and pathology. Related clinical experience.		
R T 63C	RADIOGRAPHIC CLINICAL PRACTICUM	7.5 Units
Prerequisite: RT 62B and 63B.		
Thirty-two hours laboratory.		
Continuation of RT 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	RADIOGRAPHIC CLINICAL PRACTICUM	7.5 Units
Prerequisite: RT 62C and RT 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.		
Two and one-half hours lecture, one and one-half hours laboratory		
May be taken three times for credit.		
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: RT 63 or current certification in Radiologic Technology.		
Two and one-half hours lecture, one and one-half hours laboratory		
May be taken three times for credit.		
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.		
Two hours lecture.		
May be taken three times for credit.		
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.		
Two hours lecture.		
May be taken three times for credit.		
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: Must be a registered Radiation Science Technologist or senior student in a Radiation Science Program.		
Two hours lecture.		
May be taken three times for credit.		
Includes the historical perspectives, patient care, safety, imaging procedures, data acquisition and processing, instrumentation, and sectional anatomy, as related to magnetic resonance imaging. Designed to prepare students for the ARRT Examination in Magnetic Resonance Imaging.		

R T 70A	ADVANCED CLINICAL EXPERIENCE: SPECIAL PROCEDURES	8 Units	R T 200L	RADIOLOGIC TECHNOLOGY AS A CAREER	1 Unit	
Prerequisites: One year post ARRT and CRT; a minimum of five hours of continuing education in the area of special procedures; successful completion of Foothill Sectional Anatomy Course (RSUS 62A) and current CPR certification.						
Forty 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 70B	ADVANCED CLINICAL EXPERIENCE: SPECIAL PROCEDURES	8 Units	Business & Social Sciences Division	(650) 949-7322		
Prerequisite: RT 70A.						
Forty hours clinical laboratory.						
Continuation of RT 70A, with emphasis on special radiographic equipment, imaging modalities, and special radiographic procedures.						
R T 71	ADVANCED CLINICAL EXPERIENCE: MAGNETIC RESONANCE IMAGING	8 Units	R E 50	REAL ESTATE PRINCIPLES	4 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	R E 51	REAL ESTATE PRACTICES	4 Units	
Prerequisites: RT 51C or current Certification in Radiologic Technology. Current Health Care Provider CPR card.						
One and one-half hour lecture, one and one-half hours laboratory.						
Principles and practices of intravenous injection. Includes theory, demonstration and application of venipuncture equipment and solutions, puncture techniques, complications, and post-puncture care. Meets state of California qualifications for didactic certification in venipuncture for radiologic technologists.						
R T 73	ADVANCED CLINICAL EXPERIENCE: MAMMOGRAPHY	8 Units	R E 52A	LEGAL ASPECTS OF REAL ESTATE I	4 Units	
Prerequisites: ARRT/CRT Certification or eligible. Successful completion of RT 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: COMPUTED TOMOGRAPHY	8 Units	R E 53	REAL ESTATE FINANCE	4 Units	
Forty hours laboratory.						
Designed as a practicum in a computed tomography department. Practical experience is implemented to expose the post-graduate 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 E 54	REAL ESTATE ECONOMICS	4 Units	
R T 190X		1 Unit	Four hours lecture.			
R T 190Y		1.5 Units	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 T 190Z		2 Units				
Advisory: Pass/No Pass.						
For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.						
May be taken six times for credit.						
For students who desire or require additional help in attaining comprehension and competency in learning skills.						
R T 200L	RADIOLOGIC TECHNOLOGY AS A CAREER		R E 56A	REAL ESTATE APPRAISAL I	4 Units	
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		R E 56B	REAL ESTATE APPRAISAL II	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		Four hours lecture.			
Advisory: RE 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		R E 53	REAL ESTATE FINANCE	4 Units	
Advisory: RE 50 recommended. 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		R E 54	REAL ESTATE ECONOMICS	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		R E 55	REAL ESTATE APPRAISAL I	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 55	REAL ESTATE APPRAISAL I		R E 56A	REAL ESTATE APPRAISAL I	4 Units	
Advisory: RE 50 recommended. 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		R E 56B	REAL ESTATE APPRAISAL II	4 Units	
Prerequisite: RE 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	RSPT 51A	INTRODUCTION TO RESPIRATORY ANATOMY & PHYSIOLOGY	2 Units
	Advisory: RE 50 recommended. May be taken concurrently.			Prerequisite: Acceptance into the Respiratory Therapy Program.	
	Four hours lecture.			Two hours lecture.	
	Successful techniques and practices in the management of income property from acquisition to disposal; neighborhood analyses, rent schedules, renting, credit, collections, evictions, maintenance and rehabilitation; insurance, tax considerations, depreciation schedules, pitfalls in purchase of income property.			Anatomy of the respiratory system, ventilation, diffusion of pulmonary gases, circulatory system, and oxygen transport.	
R E 61	INTRODUCTION TO REAL ESTATE INVESTMENTS	4 Units	RSPT 51B	RESPIRATORY PHYSIOLOGY	3 Units
	Four hours lecture.			Prerequisite: RSPT 51A or equivalent.	
	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.			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.	
R E 73	COMMERCIAL REAL ESTATE FINANCE & INVESTMENT	4 Units	RSPT 51C	PATIENT ASSESSMENT & PULMONARY DISEASE	4.5 Units
	Four hours lecture.			Prerequisite: BIOL 41.	
	Fundamental principles of finance and investment in local and regional commercial real estate, emphasizing banking, loans, underwriting, appraisal, lease preparation and renting.			Corequisite: Concurrent enrollment in RSPT 51B.	
				Four hours lecture, one hour lab, one half hour lecture/lab.	
				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.	
RESPIRATORY THERAPY TECHNOLOGY					
Biological & Health Sciences Division		(650) 949-7249	RSPT 51X	CARDIOPULMONARY ANATOMY, PHYSIOLOGY & PATHOLOGY	4 Units
		www.foothill.edu/bio/programs/respther/		Prerequisite: Acceptance into the Upgrade Respiratory Therapy Program.	
				Four hours lecture.	
				May be taken three times for credit.	
				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 50A	RESPIRATORY THERAPY PROCEDURES	4.5 Units	RSPT 52	APPLIED SCIENCE FOR RESPIRATORY THERAPY	3 Units
	Prerequisite: Acceptance into Respiratory Therapy Program.			Prerequisite: CHEM 30A or CHEM 25, MATH 101, high school chemistry or equivalent.	
	Corequisite: Concurrent enrollment in RSPT 52.			Three hours lecture.	
	Advisory: Eligibility for ESL 26 or ENGL 1A.			Basic mathematics and science principles applicable to Respiratory Therapy. Includes algebra review, metric system, behavior of matter, forces, acids and bases, and electrical safety.	
	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	RSPT 53A	INTRODUCTION TO RESPIRATORY THERAPY PHARMACOLOGY	2 Units
	Prerequisite: RSPT 50A and CPR certification (Health Provider C) and RSPT 54.			Prerequisite: MATH 101.	
	Advisory: RSPT 51A recommended.			Advisory: Concurrent enrollment in RSPT 50B recommended.	
	Three hours lecture, four and one half hours laboratory, five hours clinic, two and one half hours skill development.			Two hours lecture.	
	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.			An in-depth study of drug groups commonly used in the treatment of airway obstruction.	
RSPT 50C	THERAPEUTICS & INTRODUCTION TO MECHANICAL VENTILATION	4.5 Units	RSPT 53B	ADVANCED RESPIRATORY THERAPY PHARMACOLOGY	2 Units
	Prerequisite: RSPT 50B and 53A.			Prerequisite: RSPT 53A	
	Two hours lecture, two hours laboratory, ten hours clinic, one and a half hours lecture/lab.			Corequisite: RSPT 60A.	
	Practice of skills in the clinic setting. Topics to be covered include IPPB, IPV, as well as introduction to invasive and non-invasive mechanical ventilation.			Two hours lecture.	
				An in-depth study of drug groups commonly encountered in intensive respiratory care.	
RSPT 50X	RESPIRATORY THERAPEUTICS	4 Units	RSPT 54	ORIENTATION TO RESPIRATORY CARE	1.5 Units
	Prerequisite: Acceptance into the Upgrade Respiratory Therapy Program.			Prerequisite: Acceptance into Respiratory Therapy Program.	
	Four hours lecture, one hour skills development.			One hour lecture, two hours laboratory, one hour field experience.	
	May be taken three times for credit.			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.	
	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 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	RSPT 63A	ADVANCED PATHOPHYSIOLOGY & PATIENT MANAGEMENT	3 Units
Prerequisite: RSPT 61A.			Prerequisite: Completion of RSPT 61A or Respiratory Care Practitioner status.		
Two hours lecture, one hour skills development.			Three hours lecture, one hour skills development.		
Electrocardiogram and rhythm recognition. Invasive and non-invasive hemodynamic monitoring. Cardiac diagnostic and therapeutic procedures. Fluid balance.			May be taken three times for credit.		
RSPT 60B	ADVANCED CARDIAC LIFE SUPPORT	2 Units	RSPT 63X	NEONATAL & PEDIATRIC INTENSIVE CARE, HOME CARE & MANAGEMENT	4 Units
Prerequisite: RSPT 53B and 60A.			Prerequisite: RSPT 61A or 62X.		
Two hours lecture, one hour skills development.			Four hours lecture, one hour skills development.		
Preparation for Advanced Cardiac Life Support Certification. Case studies.			Neonatal and pediatric respiratory intensive care along with pulmonary rehabilitation and management of respiratory care services.		
RSPT 60C	PULMONARY DIAGNOSTICS	3 Units	RSPT 64X	ADVANCED PATHOPHYSIOLOGY & PATIENT MANAGEMENT & NBRC EXAMINATIONS	4 Units
Prerequisite: RSPT 51C.			Prerequisite: Completion of RSPT 60X and 62X or their equivalent.		
Two hours lecture, three hours laboratory, one hour skills development.			Four hours lecture.		
Methods used to detect, interpret, diagnose, and evaluate pulmonary abnormalities, exercise limitation, and sleep disorders of respiration.			May be taken three times for credit.		
RSPT 60X	CARDIOPULMONARY DIAGNOSTICS	4 Units	Prerequisite: Completion of RSPT 60X and 61X.		
Prerequisite: Completion of RSPT 50X and 51X.			Three hours lecture, one hour skills development.		
Four hours lecture.			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 61A	ADULT MECHANICAL VENTILATION	4 Units	RSPT 65	COMPUTER PATIENT SIMULATIONS	.5 Unit
Prerequisite: RSPT 50C and 51C.			Prerequisite: Completion of RSPT 61A.		
Three hours lecture, three hours lecture/laboratory, one hour skills development.			Two hours laboratory.		
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,			Information gathering and decision making in the management of patients with acute and chronic respiratory conditions.		
RSPT 61B	NEONATAL & PEDIATRIC INTENSIVE CARE	4 Units	RSPT 66A	CONTINUING EDUCATION FOR RESPIRATORY CARE: ADVANCED PATIENT MANAGEMENT	.5 Unit
Prerequisite: RSPT 61A.			Two hours laboratory.		
Three hours lecture, three hours laboratory, and two hours field experience.			May be taken six times for credit.		
Neonatal and pediatric respiratory intensive care.			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 61C	HOME & REHABILITATIVE RESPIRATORY CARE	2 Units	RSPT 70A	CLINICAL ROTATION	2 Units
Prerequisite: RSPT 61B.			Prerequisite: RSPT 50C and 51C.		
Two hours lecture, one hour field study.			Ten hours laboratory.		
Introduction to rehabilitative respiratory care. Discussion of respiratory therapy procedures and equipment used in the treatment of home care patients.			Exposure to hospital departments. Clinical application of respiratory therapy procedures. Interpretation of basic diagnostic data and correlation to applied therapies.		
RSPT 62	MANAGEMENT, RESUME & NATIONAL BOARD EXAMINATION	1 Unit	RSPT 70B	CLINICAL ROTATION	6 Units
Prerequisite: RSPT 61B.			Prerequisite: RSPT 61A and 70A.		
One hour lecture, one hour skills development, one hour field experience.			Thirty hours laboratory.		
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.			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 62X	MECHANICAL VENTILATION & ADVANCED PHARMACOLOGY	4 Units	RSPT 70C	CLINICAL ROTATION	6 Units
Prerequisite: Completion of RSPT 50X and 51X.			Prerequisite: RSPT 61B and 70B.		
Four hours lecture, one hour skills development.			Thirty hours laboratory.		
Develops the concepts and skills essential to meeting the needs of patients placed on artificial airways and artificial ventilation. Includes patient-ventilator simulations and advanced airway care procedures. Case studies of critically ill pulmonary patients compared and contrasted.			Continuation of RSPT 70B. Clinical application of theory relating to monitoring and management of neonate, pediatric, and adult intensive care unit patient.		
RSPT 70D	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.					

RSPT 71A-G	EXTENDED CLINICAL INTERNSHIP IN	1 Unit
RSPT 72A-G	RESPIRATORY THERAPY	2 Units
RSPT 73A-G		3 Units

Prerequisite: Admission to the Respiratory Therapy Program.

Advisory: Pass/No Pass.

Twenty-four hours laboratory.

Extended clinical internship. Offers additional period of clinical exposure for students needing further clinical time to develop requisite skills. Offered each quarter.

RSPT 80A	RESPIRATORY THERAPY NATIONAL BOARD EXAM REVIEW	2 Units
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Two hours lecture.

This course will help the student prepare for the National Board for Respiratory Care Examinations. Designed to help guide the student's course of study to enable successful passage of the National Board Examinations.

RSPT 80B	ECG INTERPRETATION	1 Unit
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Prerequisite: Licensed Health Care Professionals

One hour lecture.

Electrocardiogram and rhythm recognition. Identification of abnormal conduction defects and basic understanding of 12-lead ECG interpretation.

RSPT 190	DIRECTED STUDY	.5 Unit
RSPT 190X		1 Unit
RSPT 190Y		1.5 Units
RSPT 190Z		2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture.

May be taken six times for credit.

For students who desire or require additional help in attaining comprehension and competency in learning skills.

RSPT 200L	INTRODUCTION TO RESPIRATORY THERAPY	1 Unit
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Two hours lecture-laboratory.

Introduction to the career of respiratory therapy. Role of the respiratory therapist, areas of specialization in the field, educational requirements and future outlook. Clinical tasks will also be introduced.

SCI 190	DIRECTED STUDY	.5 Unit
SCI 190X		1 Unit
SCI 190Y		1.5 Units
SCI 190Z		2 Units

Advisory: Pass/No Pass.

For each unit of credit there is a total of four hours of instruction of which one-half is lecture.

May be taken six times for credit.

For students who desire or require additional help in attaining comprehension and competency in learning skills.

SOCIAL SCIENCE

Business & Social Sciences Division (650) 949-7322
www.foothill.edu/bss/

SOSC 20	CROSSCULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY	4 Units
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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.

SOSC 34	HONORS INSTITUTE SEMINAR IN SOCIAL SCIENCE	1 Unit
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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.

SOSC 35	DEPARTMENT HONORS PROJECTS IN SOCIAL SCIENCE	1 Unit
SOSC 35X		2 Units
SOSC 35Y		3 Units
SOSC 35Z		4 Units

One hour lecture for each unit of credit.

May be taken six times for credit.

Seminar in social science readings, research, critical techniques and analysis. Specific topics vary.

SOSC 36	SPECIAL PROJECTS IN SOCIAL SCIENCE	1 Unit
SOSC 36W		.5 Unit
SOSC 36X		2 Units
SOSC 36Y		3 Units

SOSC 36Z

One hour lecture for each unit of credit.

May be taken for a maximum of six units.

Advanced readings, research, and/or project in social science. Specific topics determined in consultation with instructor.

SOSC 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.

One-half hour lecture.

May be taken three times for credit.

Introduction to theories and methods of effective tutoring, including role of a tutor, relationship of tutor to students and faculty.

SOSC 79	INTRODUCTION TO COMMUNITY SERVICE	1 Unit
SOSC 79Y		3 Units

Three or nine hours laboratory.

May be taken three times for credit.

Introduction to theories and methods of effective volunteer participation in community service, including assessing community needs, role of the volunteer, relationship with public agencies.

ROTC

Foothill College participates in the Reserve Officer Training Corps (ROTC) programs at area universities so that students who want to obtain ROTC credit while attending Foothill College may do so. Foothill College students can enroll in lower-division ROTC coursework which can ultimately result in a commission as an officer. Students who enroll in these programs should contact a Foothill counselor for credit and certification. For more information, call one of the following representatives:

Air Force: San Jose State University, (408) 924-2960

Army: Santa Clara University, (408) 554-4781

Navy: UC Berkeley, (510) 642-3351.

SCIENCE

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/divisions/psme/

SCI 34	HONORS INSTITUTE SEMINAR IN SCIENCE	1 Unit
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Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in science. Specific topics to be determined by the instructor.

SOSC 155	STANDARDIZED TEST PREPARATION	.5 Unit	SOSC 19	ALCOHOL & DRUG ABUSE	4 Units
SOSC 155X		1 Unit	<i>Formerly SOC 55.</i>		
SOSC 155Y		1.5 Units	<i>Four hours lecture.</i>		
SOSC 155Z		2 Units	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.		
Advisory: Pass/No Pass.					
One hour lecture for each unit of credit.					
May be taken six times for credit.					
Test-taking strategies for standardized college entrance tests. Analysis of test structure and content. Identification of areas of weakness; practice with those areas.					
SOSC 460	SUPERVISED TUTORING	0 Units	SOC 20	MAJOR SOCIAL PROBLEMS	4 Units
One-half hour lecture, seven and one-half hours laboratory.			Four hours lecture.		
May be taken six times.			Nature and origins of the principal social problems of our time. Consequences of industrialization, rapid technological change, and resultant tensions of changing roles 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]		
Individual study and/or guidance provided for students who desire or require additional assistance in any discipline for which tutorial assistance is available.					
SOSC 462	SUPERVISED BUSINESS & SOCIAL SCIENCES TECHNOLOGY TUTORING	0 Units	SOC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4 Units
One-half hour lecture, seven and one-half hours laboratory.			Advisory: Not open to students with credit in PSYC 21 or WMN 21.		
May be taken six times.			Four hours lecture.		
Individual study and/or guidance provided for students who desire or require additional assistance in technology related to business and social sciences instruction.			Survey of gender issues based upon psychological and sociological theories and research. Examination of sex roles stereotyping and differences. Developmental considerations.		
SOSC 490	SUPERVISED TUTORING	0 Units	SOC 23	RACE & ETHNIC RELATIONS	4 Units
One-half hour lecture, one and one-half hours laboratory.			Four hours lecture.		
May be taken six times.			Focus on the meaning of race and ethnicity as it relates to intergroup relations in the USA. Inclusive analysis of concepts, theories, socio-legal effects of the Civil Rights Movement, public policy and its impact on diverse racial and ethnic populations in the USA. Historical and sociological assessment of majority-minority relations with emphasis on the perspectives of African-Americans, Hispanic/Latino-Americans, Asian-Americans and the indigenous Native American tribes. Demographic implications of race and ethnic relations on USA's economic, political and educational institutions. Relationship among race, ethnicity and poverty.		
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		SOC 30	SOCIAL PSYCHOLOGY	4 Units
	www.foothill.edu/bss/		Advisory: Not open to students with credit in PSYC 30.		
SOC 1	INTRODUCTION TO SOCIOLOGY	5 Units	Four hours lecture.		
Five 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.		
SOC 10	INTRODUCTION TO SOCIAL RESEARCH	4 Units	SOC 34	HONORS INSTITUTE SEMINAR IN SOCIOLOGY	1 Unit
Advisory: Not open to students with credit in PSYC 10.			Prerequisite: Membership in the Honors Institute.		
Four hours lecture.			One hour 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.			A seminar in directed readings, discussions and projects in sociology. Specific topics to be determined by the instructor.		
SOC 11	INTRODUCTION TO SOCIAL WELFARE	5 Units	SOC 35	DEPARTMENT HONORS PROJECTS IN SOCIOLOGY	1 Unit
Formerly SOC 54.			2 Units		
Five hours lecture.			SOC 35Y		3 Units
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 35Z		4 Units
SOC 15	LAW & SOCIETY	4 Units	SOC 35 One hour lecture. SOC 35X Two hours lecture. SOC 35Y Three hours lecture. SOC 35Z Four hours lecture.		
Four hours lecture.			May be taken for a maximum of six units.		
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.			Seminar in sociological readings, research, critical techniques and practice. Specific topics vary.		

SOC 36	SPECIAL PROJECTS IN SOCIOLOGY	1 Unit	SPAN 5	INTERMEDIATE SPANISH	5 Units			
SOC 36X		2 Units	Prerequisite: SPAN 4 or four years of high school Spanish.					
SOC 36Y		3 Units	Five hours lecture, one hour laboratory.					
SOC 36Z		4 Units	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.					
One hour lecture for each unit of credit.			[CAN SPAN 9; SPAN 4 & 5 & 6 = CAN SPAN SEQ B]					
May be taken for a maximum of six units.								
Advanced readings, research and/or project in sociology. Specific topics determined in consultation with instructor.								
SOC 40	ASPECTS OF MARRIAGE & FAMILY	4 Units	SPAN 6	INTERMEDIATE SPANISH	5 Units			
Four hours lecture.			Prerequisite: SPAN 5.					
Survey of empirical studies conducted by family sociologists from varied theoretical orientations. Focus on social influences affecting the American expressions of intimate life styles related to relationships, marriage and family systems. Exposure to the methods of social research.			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; SPAN 4 & 5 & 6 = CAN SPAN SEQ B]								
SPANISH								
Language Arts Division		(650) 949-7250	SPAN 10A	SPANISH FOR HERITAGE SPEAKERS	5 Units			
		www.foothill.edu/la/	Prerequisite: SPAN 6					
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; SPAN 1 & 2 = CAN SPAN 2; SPAN 1 & 2 & 3 = CAN SPAN SEQ A]								
SPAN 2	ELEMENTARY SPANISH	5 Units	SPAN 13A	INTERMEDIATE CONVERSATION I	3 Units			
Prerequisite: SPAN 1 or one year of high school Spanish.			Prerequisite: SPAN 3.					
Five hours lecture, two hours laboratory.			Advisory: May be taken concurrently with SPAN 4.					
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 3; SPAN 1 & 2 = CAN SPAN 2; SPAN 2 & 3 = CAN SPAN 4; SPAN 1 & 2 & 3 = CAN SPAN SEQ A]								
SPAN 3	ELEMENTARY SPANISH	5 Units	SPAN 13B	INTERMEDIATE CONVERSATION II	3 Units			
Prerequisite: SPAN 2 or two years of high school Spanish.			Prerequisite: SPAN 13A.					
Five hours lecture, two hours laboratory.			Advisory: May be taken concurrently with SPAN 5.					
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 5; SPAN 2 & 3 = CAN SPAN 4; SPAN 1 & 2 & 3 = CAN SPAN SEQ A]								
SPAN 4	INTERMEDIATE SPANISH	5 Units	SPAN 14A	ADVANCED CONVERSATION I	3 Units			
Prerequisite: SPAN 3 or three years of high school Spanish.			Prerequisite: SPAN 13B.					
Five hours lecture, one hour laboratory.			Advisory: May be taken concurrently with SPAN 5.					
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; SPAN 4 & 5 & 6 = CAN SPAN SEQ B]								

SPAN 14B ADVANCED CONVERSATION II	3 Units	SPAN 190 DIRECTED STUDY	.5 Unit
Prerequisite: SPAN 14A.		SPAN 190X	1 Unit
Advisory: May be taken concurrently with SPAN 6.		SPAN 190Y	1.5 Units
Three hours lecture, one hour laboratory.		SPAN 190Z	2 Units
Continuation of SPAN 14 A. Designed to give students practice in aural/ oral communication skills in an environment of increasingly challenging language situations. Evaluation and response to real, current material: politics, literature, art, music, film. Critical analysis of the cultural manifestations and history of the Spanish-speaking world, including the Latino population of the U.S. Evaluation of the cultural values inherent in conversation. Integration of cultural competency into conversation skills: what's appropriate in a given culture (in terms of register, vocabulary and values) and in a given setting within that culture.		Advisory: Pass/No Pass.	
SPAN 25A ADVANCED COMPOSITION & READING	4 Units	Half hour lecture of individualized instruction for each .5 unit.	
Prerequisite: SPAN 6.		May be taken six times for credit.	
Four hours lecture.		For students who desire or require additional help in attaining comprehension and competency in learning skills.	
Extensive reading and analysis of original Spanish literary and non-literary sources from Spanish speaking countries and the Hispanic communities in the US, 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.			
SPAN 25B ADVANCED COMPOSITION & READING	4 Units		
Prerequisite: SPAN 25A.			
Four hours lecture.			
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.			
SPAN 36 SPECIAL PROJECTS IN SPANISH	1 Unit	SPED 3 ATTENTION DEFICIT DISORDER FOR EDUCATORS & PARENTS	3 Units
SPAN 36X	2 Units	Prerequisite: Eligibility for ENGL 1A.	
SPAN 36Y	3 Units	Three hours lecture.	
SPAN 36Z	4 Units	An overview of attention deficit disorders, subtypes, presenting symptoms, interventions, teaching strategies and educational and legal ramifications. Intended for educators and parents.	
Prerequisite: SPAN 5.			
Advisory: Enrollment for this course is available in the Language Arts Division Office.			
One hour lecture for each unit of credit.			
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.			
SPAN 106 INTRODUCTION TO BUSINESS SPANISH	4 Units	SPED 50 INTRODUCTION TO ADAPTIVE FITNESS TECHNIQUES	3 Units
Prerequisite: SPAN 3 or equivalent.		Two hours lecture, three hours laboratory.	
Four hours lecture, one hour laboratory.		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.	
Special focus on financial and business vocabulary, business correspondence, and Spanish business practices used in a Spanish international environment. Reading, writing and discussion of business practices used in the Spanish-speaking business world.			
SPAN 110 SPANISH LANGUAGE & CULTURE	2.5 Units	SPED 52 INTERGENERATIONAL ADULT HEALTH & DEVELOPMENT	3 Units
Two-and-a-half hours lecture, one-hour laboratory.		Formerly: SPED 102	
Introduction to the Spanish language with emphasis on the active use of practical Spanish in simple everyday situations. Basic grammar, vocabulary and pronunciation, with frequent small group conversations. Introduction to Spanish culture with emphasis on cultural diversity within the Spanish-speaking world		Two hours lecture, three hours laboratory.	
		May be taken six times for credit.	
		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.	
SPAN 111 PRACTICAL SPANISH	2.5 Units	SPED 54 PRINCIPLES OF THERAPEUTIC EXERCISE	4 Units
Advisory: SPAN 110.		Formerly: ALAP 102	
Two-and-a-half hours lecture, one hour laboratory.		Three hours lecture, three hours laboratory.	
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.		Designed to provide the fitness professional the basic skills necessary to execute a therapeutic exercise program.	
SPED 55 GERIATRIC FITNESS CONCEPTS	3 Units	SPED 55 GERIATRIC FITNESS CONCEPTS	3 Units
Formerly: ALAP 103		Formerly: ALAP 103	
Two hours lecture, three hours laboratory.		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	SPED 56 FUNCTIONAL ASPECTS OF ADAPTIVE FITNESS	3 Units
Two hours lecture, three hours laboratory.		Two hours lecture, three hours laboratory.	
Designed to provide the student with the fundamentals and principles of adaptive fitness. Student 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	
Two hours lecture.			
May be repeated two times for credit.			
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.			
Not repeatable.			
An overview of all major categories and characteristics of disabilities encountered in schools or clinical settings. Physical, Sensory, Developmental and Learning Disabilities will be discussed. Experiential aspects of disabilities from the perspectives of disabled individuals will be explored through readings and guest speakers. Emphasis will be 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.			
Not repeatable.			
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 handicapped in terms of function and dysfunction of the information processing system for learning, and theories and practices that have influenced the field. Observable characteristics and indicators of system dysfunction will be examined.			
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	
Three hours laboratory for each unit of credit.			
May be taken six times for 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 68	ADD CAUSES & EFFECTS	3 Units	
Formerly: SPED 4			
Advisory: Eligibility for ENGL 1A, SPED 003, or consent of instructor			
Three hours lecture.			
An in-depth study of the genetic roots, diagnostic procedures, comorbid conditions, sociological and psychological causes and effects, gender differences, and successful intervention strategies for treating ADD/ADHD in its various presentations. Intended for educators, parents, health professionals and interested individuals who have a basic working knowledge of ADD/ADHD and its multiple subtypes and treatments.			
SPED 69	SPECIAL EDUCATION STRATEGIES & PRACTICUM	4 Units	
Three Hours Lecture, Three Hours Lab			
An overview of the field of special education. Focuses on components of instruction for students with disabilities. Field work activity required.			

SPEECH COMMUNICATION

Fine Arts & Communications Division	(650) 949-7440
	www.foothill.edu/fa/speechcomm.html
SPCH 1A	PUBLIC SPEAKING
Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.	4.5 Units
Four hours lecture, one and one-half hours laboratory.	
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]	
SPCH 1B	ARGUMENTATION & PERSUASION
Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.	4.5 Units
Four hours lecture, one and one-half hours laboratory.	
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]	
SPCH 2	INTERPERSONAL COMMUNICATION
Formerly: SPCH 52	4.5 Units
Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.	
Four hours lecture, one and one half hours laboratory.	
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.	
SPCH 3	FUNDAMENTALS OF ORAL COMMUNICATION
Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.	4.5 Units
Four hours lecture, one and one-half hours laboratory.	
Introduction to the nature of communication in interpersonal and intercultural contexts, group interactions and public speaking. Application of basic theories through critically evaluated exercises.	

SPCH 4	GROUP DISCUSSION	4.5 Units	SPCH 35	DEPARTMENT HONORS	1 Unit
<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.</i>			SPCH 35X	PROJECTS IN SPEECH	2 Units
<i>Four hours lecture, one and one-half hours laboratory.</i>			SPCH 35Y		3 Units
<i>Understanding of the principles of group interaction and decision making.</i>			SPCH 35Z		4 Units
<i>Participation in discussion groups designed to share information, solve problems and reach consensus. [CAN SPCH 10]</i>			<i>Advisory: SPCH 1A or 4.</i>		
SPCH 6	THE RHETORIC OF POLITICAL SPEECH	4.5 Units	<i>One hour lecture for each unit of credit.</i>		
<i>Formerly: SPCH 56</i>			<i>May be taken for a maximum of eight units.</i>		
<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.</i>			<i>A seminar of advanced research in the critical elements of speech communication.</i>		
<i>Four hours lecture, one and one-half hours laboratory</i>			<i>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.</i>		
<i>The study of communication strategies utilized in American politics. Analysis of rhetorical theory and application of various methods of public persuasion, with special attention paid to campaign discourse. Examination of political speeches, debates, media coverage and the development of image. Oral presentation of analyses using various types of evidence and supporting material.</i>					
SPCH 10	GENDER, COMMUNICATION & CULTURE	4.5 Units	SPCH 36	SPECIAL PROJECTS IN SPEECH	1 Unit
<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.</i>			SPCH 36X		2 Units
<i>Four hours lecture, one and one-half hours laboratory.</i>			SPCH 36Y		3 Units
<i>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.</i>			SPCH 36Z		4 Units
<i>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).</i>			<i>Advisory: SPCH 1A or 4.</i>		
<i>One hour lecture for each unit of credit.</i>			<i>May be taken for a maximum of eight units.</i>		
<i>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.</i>					
SPCH 12	INTERCULTURAL COMMUNICATION	4.5 Units	SPCH 46	VOICE & DICTION	4 Units
<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.</i>			<i>Advisory: Not open to students with credit in DRAM 46.</i>		
<i>Four hours lecture, one and one-half hours laboratory.</i>			<i>Three hours lecture, three hours laboratory.</i>		
<i>A comparative and integrative study of intercultural communication in American Society. Analysis 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.</i>			<i>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.</i>		
SPCH 24	READERS' THEATRE	4.5 Units	SPCH 53	FORENSIC SPEECH/DEBATE	4.5 Units
<i>Advisory: Not open to students with credit in DRAM 24.</i>			<i>Formerly SPCH 90.</i>		
<i>Three hours lecture, three hours laboratory.</i>			<i>Advisory: SPCH 1A and/or 1B</i>		
<i>May be taken two times for credit.</i>			<i>Four hours lecture, one and one-half hours laboratory.</i>		
<i>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.</i>			<i>Study of public oratory, adjudicated debate and forensic speech; application of principles 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.</i>		
SPCH 30	ORAL INTERPRETATION OF LITERATURE	4.5 Units	SPCH 54	INTERCOLLEGIATE SPEECH & DEBATE	1.5 Units
<i>Three hours lecture, three hours laboratory.</i>			<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.</i>		
<i>Introductory techniques of selection, comprehension, oral interpretation and presentation of prose, poetry, and dramatic literature, exploring diverse cultural and ethnic backgrounds.</i>			<i>One, two, three or four hours lecture, one and one-half hours laboratory.</i>		
			<i>One unit of credit per hour of lecture.</i>		
SPCH 34	HONORS INSTITUTE SEMINAR IN SPEECH	1 Unit	<i>May be taken six times for credit.</i>		
<i>Prerequisite: Membership in the Honors Institute.</i>			<i>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.</i>		
<i>One hour lecture.</i>					
<i>A seminar in directed readings, discussions, and projects in speech. Specific topics to be determined by the instructor.</i>			SPCH 54X	SPECIAL PROJECTS: INTERCOLLEGIATE DEBATE	2.5 Units
			<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.</i>		
			<i>One, two, three or four hours lecture, one and one-half hours laboratory.</i>		
			<i>One unit of credit per hour of lecture.</i>		
			<i>May be taken six times for credit.</i>		
			<i>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.</i>		

SPCH 54Y	SPECIAL PROJECTS: INTERCOLLEGiate DEBATE	3.5 Units	T C 52	TOURIST CENTERS OF EUROPE	4 Units
	<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. One, two, three or four hours lecture, one and one-half hours laboratory. One unit of credit per hour of lecture. May be taken six times for credit.</i>			<i>Four hours lecture, one hour laboratory. 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.</i>	
SPCH 54Z	SPECIAL PROJECTS: INTERCOLLEGiate DEBATE	4.5 Units	T C 53	GLOBAL TOURISM	4 Units
	<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. One, two, three or four hours lecture, one and one-half hours laboratory. One unit of credit per hour of lecture. May be taken six times for credit.</i>			<i>Four hours lecture, one hour laboratory. 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.</i>	
SPCH 55	PROFESSIONAL & CAREER COMMUNICATION	4 Units	T C 54	SELLING CRUISES	4 Units
	<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Four hours lecture, one hour laboratory.</i>			<i>Four hours lecture, one hour laboratory. Product orientation for travel career majors. Focus on increasing profits through cruise ship sales. Exploring sea and land routings with ship guides and current brochures.</i>	
SPCH 105	SPEAKING WITH CONFIDENCE	4.5 Units	T C 55	SELLING DOMESTIC TRAVEL	4 Units
	<i>Four hours lecture, one and one-half hour laboratory</i>			<i>Four hours lecture, one hour laboratory. Student participation within a simulated travel agency. Using industry reference materials to plan domestic itineraries.</i>	
SPCH 190	DIRECTED STUDY	.5 Unit	T C 56	SELLING FOREIGN INDEPENDENT TOURS	4 Units
SPCH 190X		1 Unit		<i>Four hours lecture, one hour laboratory. Advanced office procedures. Emphasis upon complex travel problems and the preparation of worldwide itineraries.</i>	
SPCH 190Y		1.5 Units	T C 57	TRAVEL CAREER SEMINAR	3 Units
SPCH 190Z		2 Units		<i>Three hours lecture. Preparing for employment: creating a resume and interviewing. Developing an on-the-job strategy for increasing earnings. Designed for all who wish to polish their career-advancement skills.</i>	
	<i>Advisory: Pass/No Pass. For each unit of credit there is a total of four hours of instruction of which one-half hour is lecture. May be taken six times for credit.</i>		T C 58	SELLING GROUP TRAVEL	4 Units
	<i>For students who desire or require additional help in attaining comprehension and competency in learning skills.</i>			<i>Four hours lecture, one hour laboratory. The tour operator at work. Creating, operating and marketing of travel for groups in both retail and wholesale companies.</i>	

TRAVEL CAREERS

Business & Social Sciences Division	(650) 949-7263	www.foothill.edu/bss/	T C 59	TRAVEL SALES TECHNIQUES	3 Units
				<i>Three hours lecture, one hour laboratory. Dynamics of selling the travel product from qualifying the client to closing the sale.</i>	
T C 50	INTRODUCTION TO TRAVEL CAREERS	2 Units	T C 60	TRAVEL ONLINE	1 Unit
	<i>Two hours lecture, one hour laboratory.</i>			<i>Formerly: T C 80. Two hours lecture-laboratory, two hours laboratory.</i>	
	<i>Exploring the many career choices offered by one of the world's largest industries. Introduction to the special language and dynamics of the travel business.</i>			<i>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.</i>	
T C 51	TOURISM IN NORTH AMERICA	4 Units	T C 62A	CREATING TRAVEL RESERVATIONS: BASIC	2 Units
	<i>Four hours lecture, one hour laboratory.</i>			<i>Formerly: T C 84A. Four hours lecture-laboratory, two hours laboratory.</i>	
	<i>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.</i>			<i>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.</i>	

T C 62B	CREATING TRAVEL RESERVATIONS: ADVANCED	2 Units	T C 79A	TOURISM SEMINAR SERIES: SALES & SERVICE	.5 Unit
<i>Formerly: T C 84B.</i>			Advisory: Pass/No Pass.		
<i>Advisory: T C 62A recommended.</i>			<i>Six hours lecture for each .5 unit.</i>		
<i>Four hours lecture-laboratory, two hours laboratory.</i>			<i>May be taken six times for credit.</i>		
Continuation of TC 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.			Successful strategies to enhance the travel professional's expertise in selling the world. Emphasis will be given to increasing sales through exceptional customer service.		
T C 64	AIR TICKETING: NORTH AMERICA	3 Units	T C 79B	TOURISM SEMINAR SERIES: HIGH-TECH TRAVEL	.5 Unit
<i>Formerly: T C 60A.</i>			Advisory: Pass/No Pass.		
<i>Two hours lecture, one hour lecture-laboratory, three hours laboratory.</i>			<i>Six hours lecture for each .5 unit.</i>		
Introduction to the various domestic airline fares and rules, ticket-writing, and other documents. Instruction offered in the Travel Careers Computer Training Center.			<i>May be taken six times for credit.</i>		
Using cutting-edge technology to enhance the travel professional's expertise in selling the world.					
T C 65	AIR TICKETING: INTERNATIONAL	3 Units	T C 79C	TOURISM SEMINAR SERIES: PROFESSIONAL DEVELOPMENT	.5 Unit
<i>Formerly: T C 61A.</i>			Advisory: Pass/No Pass.		
<i>Two hours lecture, one hour lecture-laboratory, three hours laboratory.</i>			<i>Six hours lecture for each .5 unit.</i>		
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.			<i>May be taken six times for credit.</i>		
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 67	BUSINESS TRAVEL RESERVATIONS	2 Units	T C 79D	TOURISM SEMINAR SERIES: DESTINATIONS IN DEPTH	.5 Unit
<i>Formerly: T C 87.</i>			Advisory: Pass/No Pass.		
<i>Advisory: T C 62B recommended.</i>			<i>Six hours lecture for each .5 unit.</i>		
<i>Four hours lecture-laboratory, two hours laboratory.</i>			<i>May be taken six times for credit.</i>		
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.			Exploring one area of the world to enhance the travel professional's expertise in selling the product.		
T C 68	LEISURE TRAVEL RESERVATIONS	2 Units	T C 79E	TOURISM SEMINAR SERIES: MARKETING THE TRAVEL PRODUCT	.5 Unit
<i>Formerly: T C 88.</i>			Advisory: Pass/No Pass.		
<i>Advisory: T C 54 and T C 62B recommended.</i>			<i>Six hours lecture for each .5 unit.</i>		
<i>Four hours lecture-laboratory, two hours laboratory.</i>			<i>May be taken six times for credit.</i>		
Using the Internet and SABRE formats to sell tours, cruises, and other vacation products. Practice with sales techniques. Instruction offered in the Travel Careers Computer Training Center.			Relevant topics to enhance the travel professional's expertise. Exploring unique opportunities to increase profits and build market share.		
T C 70	SPECIAL WORLDWIDE DESTINATIONS	4 Units	T C 81A	DESTINATION SPECIALIST SERIES: CHINA	1 Unit
<i>Four hours lecture, one hour laboratory.</i>			One hour lecture, one hour laboratory		
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.			Destination Specialist (DS) 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 74	TOUR DIRECTING	3 Units	T C 81B	DESTINATION SPECIALIST SERIES: HAWAII	1 Unit
<i>Three hours lecture, one hour laboratory.</i>			One hour lecture, one hour laboratory		
Preparation for leading and managing both domestic and international tour groups. Opportunity to participate in a local motorcoach tour.			Destination Specialist (DS) course from the Institute of Certified Travel Agents. 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 75	OPERATING WHOLESALE TOURS	3 Units	T C 81C	DESTINATION SPECIALIST SERIES: ALASKA	1 Unit
<i>Advisory: T C 58 recommended.</i>			One hour lecture, one hour laboratory		
<i>Three hours lecture, one hour laboratory.</i>			Destination Specialist (DS) 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.		
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.					
T C 78	MANAGING A TRAVEL BUSINESS	2 Units			
<i>Two hours lecture, one hour laboratory.</i>					
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.					

T C 81E	DESTINATION SPECIALIST SERIES: SPAIN	1 Unit	T C 83C	DESTINATION SPECIALIST SERIES: NORTH AMERICA	3 Units
One hour lecture, one hour laboratory.					
Destination Specialist (DS) course from the Travel Institute. 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	T C 92	TRAVEL CAREERS TUTOR TRAINING	1 Unit
One hour lecture, one hour laboratory.					
Destination Specialist (DS) 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 82A	DESTINATION SPECIALIST SERIES: CARIBBEAN	2 Units	T C 92X		2 Units
Two hours lecture, one hour laboratory					
Destination Specialist (DS) 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	T C 92Y		3 Units
Two hours lecture, one hour laboratory					
Destination Specialist (DS) 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	Prerequisite: Permission of program coordinator.		
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	Advisory: Pass/No Pass.		
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 Australia, New Zealand, and various islands in Micronesia, Melanesia, and Polynesia, highlighting major tourism areas. Emphasis on professional sales techniques.					
T C 83A	DESTINATION SPECIALIST SERIES: AFRICA	3 Units	Minimum three hours laboratory per week for each unit of credit.		
Three hours lecture, one hour laboratory.					
Destination Specialist (DS) 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 83B	DESTINATION SPECIALIST SERIES: LATIN AMERICA	3 Units	May be taken six times for credit.		
Three hours lecture, one hour laboratory.					
Destination Specialist (DS) 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 92	OPEN COMPUTER LABORATORY	.5 Unit	Practice in individual tutoring under instructional supervision.		
T C 100		1 Unit			
T C 100X					
T C 100Y		1.5 Units			
T C 100Z		2 Units			
Prerequisite: Prior enrollment in any Travel Careers course requiring computer usage.					
Advisory: Pass/No Pass.					
For each unit of credit there is a total of three hours laboratory per week.					
May be taken six times for 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.					
T C 190	DIRECTED STUDY	.5 Unit			
T C 190X		1 Unit			
T C 190Y		1.5 Units			
T C 190Z		2 Units			
Advisory: Pass/No Pass.					
One-half hour lecture, one and one-half hours laboratory per week for each half-unit of credit					
May be taken six times for credit.					
For students who desire or require additional help in attaining comprehension and competency in learning skills.					
VETERINARY TECHNOLOGY					
Biological & Health Sciences Division					(650) 949-7599
					www.foothill.edu/bio/programs/vettech/
V T 50	CURRENT TOPICS IN VETERINARY TECHNOLOGY	.5 Unit			
Advisory: Pass/No Pass					
One hour lecture-laboratory.					
May be taken six times for credit.					
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.					

V T 51	INTRODUCTION TO VETERINARY TECHNOLOGY	1.5 Units	V T 60	VETERINARY OFFICE PRACTICE	2 Units
	One hour lecture, two hours lecture-laboratory.		Two hours lecture and one hour case study.		
	A prerequisite for admission to the Veterinary Technology Program. Orientation to the program, and a survey of the role of the veterinary technician in the workplace. Survey of employment opportunities and areas of specialization. Ethics and professionalism. Laws and regulations governing veterinary technicians. Introduction to basic animal care skills and clinical procedures.		Principles and practice of veterinary office management for veterinary technology students. Client relations, receptionist skills, telephone techniques and personnel management. Generation and maintenance of correspondence, medical records, legal forms and hospital logs. Basic bookkeeping, accounting and financial management principles. Marketing and public relations. Professional ethics and professionalism. Use of computers for data entry, patient record management and inventory control. Use of practice management software. State and federal laws as they apply to the veterinary practice.		
V T 53A	MEDICAL TERMINOLOGY	1 Unit	V T 61	ANIMAL DISEASES	5 Units
	Two hours lecture-laboratory.		Four hours lecture, two hours lecture-laboratory and one hour internet research.		
	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.		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 53B	MEDICAL CALCULATIONS	1 Unit	V T 70	FUNDAMENTALS OF VETERINARY DIAGNOSTIC IMAGING	4 Units
	Two hours lecture-laboratory.		Three hours lecture, three hours laboratory and one hour internet research.		
	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.		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 53C	INTRODUCTION TO LARGE ANIMAL CARE	1 Unit	V T 72	PRINCIPLES OF VETERINARY DENTISTRY	2 Units
	Two hours lecture-laboratory and one hour case study.		One hour lecture, two hours lecture-laboratory.		
	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.		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 55	ANIMAL MANAGEMENT & CLINICAL SKILLS I	4 Units	V T 75A	ANIMAL CARE SKILLS	1 Unit
	Three hours lecture, three hours laboratory, one hour internet research and two hours open skills laboratory.		Three hours 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.		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 56	ANIMAL MANAGEMENT & CLINICAL SKILLS II	4 Units	V T 75B	ANIMAL CARE SKILLS	1 Unit
	Three hours lecture, three hours laboratory, one hour internet research and two hours open skills laboratory.		Three hours 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.		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. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties. Responsibilities will expand to include medical record keeping.		

V T 75C	ANIMAL CARE SKILLS	1 Unit
Three hours laboratory.		
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 81	CLINICAL PATHOLOGY METHODS	5 Units
Four hours lecture, three hours laboratory and one hour case study.		
Fundamental studies of laboratory techniques and procedures involved in evaluating veterinary clinical samples. Areas of study include hematology, urinalysis, hemostasis, blood biochemistry and enzymology, serology, and cytology. The veterinary technician's role in sample collection, sample storage and handling, and performance of analytic procedures will be emphasized. Skills are developed in the use of laboratory equipment, laboratory safety and management, and quality control.		
V T 83	PHARMACOLOGY FOR TECHNICIANS	4 Units
Four hours lecture and one hour case study.		
Introduction to the basic principles of veterinary pharmacology. Preparation and dispensing of medications. Overview of the actions and interactions of the major classes of drugs, with emphasis on common veterinary uses of specific drugs.		
V T 84	ANESTHESIOLOGY FOR TECHNICIANS	5 Units
Prerequisite: VT 83.		
Three hours lecture, six hours laboratory and one hour case study.		
Principles and practice of veterinary anesthesia. The physiology of the respiratory, cardiovascular, and nervous systems relevant to anesthesia. The pharmacology and uses of common pre-anesthetic and anesthetic agents. The veterinary technician's role in patient preparation, induction and maintenance of anesthesia, surgical assistance, and post-anesthetic nursing will be practiced in the laboratory.		
V T 85	VETERINARY EMERGENCY & CRITICAL CARE	4 Units
Three hours lecture, three hours laboratory and one hour case study.		
Theoretical and practical aspects of assisting the veterinarian in the management of medical and traumatic emergencies. Recognition and assessment of cardiovascular shock, respiratory crisis, gastrointestinal emergency, and musculoskeletal trauma. Principles and techniques of fluid therapy and administration of emergency drugs. Application of treatment protocols for shock, cardiopulmonary arrest, gastrointestinal crisis, wounds and fractures, toxicoses, and dystocia. Nutrition of critical care patients. Maintenance of emergency medical equipment and supplies.		
V T 86	LABORATORY ANIMAL TECHNOLOGY	4 Units
Four hours lecture and 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 anesthesia, 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 VT 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 VT 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 89, 91-93	CLINICAL INTERNSHIP	3-4 Units
Fifteen to 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 and one hour group study.		
Review of pertinent subject matter in preparation for the California State 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 151	INTRODUCTION TO VETERINARY SCIENCE & ANIMAL CARE FOR YOUTH	1 Unit	VART 5B	PLAYWRITING	4 Units
Prerequisite: Completion of grade ten and recommendation of high school principal.			Advisory: Not open to students with credit in DRAM 5B or CRWR 36B.		
Two hours lecture-laboratory.			Four hours lecture, one and one-half hours laboratory.		
A course for high school students seeking an understanding of the role of various animal care providers and personal companion animal care. Provides an opportunity to learn about the careers of veterinary assisting, veterinary technology, and veterinary medicine while learning practical animal care information for a variety of species. Introduction to aspects of companion animal, laboratory animal, large animal, exotic animal, and, wildlife practice and technology through classroom, laboratory, and field experiences. Broad scope of study of companion animal care including housing, nutrition, preventive care, grooming, and first aid. Introductory survey of various common clinical disorders and basic veterinary clinical skills.			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.		
V T 190	DIRECTED STUDY	.5 Unit	VART 6	ADVANCED PLAYWRITING	4 Units
V T 190X		1 Unit	Prerequisite: DRAM 5B, CRWR 36A, VART 5B		
V T 190Y		1.5 Units	Advisory: Not open to students with credit in DRAM 6		
Advisory: Pass/No Pass.			Four hours lecture, one hour laboratory		
One half-hour lecture and one and one-half, three and one-half, five and one-half, seven and one-half hours laboratory.			May be repeated six times for credit.		
May be taken six times for credit.			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.		
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					
Fine Arts & Communications Division		(650) 949-7562	VART 20	DIGITAL VIDEO PRODUCTION I	4 Units
		www.foothill.edu/fa/	Formerly: F TV 20		
VART 1	INTRODUCTION TO FILM STUDIES	4 Units	Advisory: Not open to students with credit in GID 20.		
Formerly: F TV 1			Two and one-half hours lecture, three hours lecture-laboratory, one hour laboratory.		
Four hours lecture, one hour laboratory.			Basic instruction in concepts, techniques, and strategies of small-format video production and post-production. Basic lighting, sound recording, and editing will be covered through technical workshops. Emphasis on video story telling, editing and creative problem solving.		
A survey of the language, technology, and aesthetics of the moving image as an art form. The course emphasizes an introduction to the critical analysis of film and video. Includes weekly readings, film viewing, and discussion.					
VART 2A	HISTORY OF FILM 1895–1945	4 Units	VART 21	DIGITAL VIDEO PRODUCTION II	4 Units
Formerly: F TV 2A			Formerly: F TV 21		
Four hours lecture, one hour laboratory.			Prerequisite: VART 20		
Survey of the development of motion pictures from beginning to the 1940s. Emphasis on understanding evolution of international film-making.			Two and a half hours lecture, three hours lecture-laboratory, two hours laboratory.		
VART 2B	HISTORY OF FILM 1945–CURRENT	4 Units	May be taken three times for credit.		
Formerly: F TV 2B			Continuation of VART 20. Further exploration of video production with an emphasis advanced topics in videography, lighting, and sound. Emphasis on pre-production and scripting methods.		
Four hours lecture, one hour laboratory.					
Critical analysis of film as an art form with emphasis on film evolution from the 1940s to the present.					
VART 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET	4 Units	VART 25	LIGHTING FOR DIGITAL VIDEO & FILM	4 Units
Formerly: F TV 2C			Advisory: VART 20 or PHOT 5 recommended		
Four hour lecture, one hour laboratory.			Two and a half hours lecture, three hours lecture-laboratory.		
Current trends of film, video, television, and internet media. Critical analysis of time based linear and nonlinear visual media. Emphasis on the visual experience of communicating ideas, stories, and events.			An introduction to the technical and aesthetic principles of lighting for digital video and film. Students will explore basic lighting instruments and their characteristics and use in the art of lighting. Topics include color, composition, exposure, light and shadow, three-point lighting, basic electricity, and grip equipment.		
VART 3	AMERICAN CINEMA	4 Units	VART 50	CAREERS IN THE VISUAL ARTS	2 Units
Formerly: F TV 3			Advisory: Not open to students with credit in GID 60 or PHOT 67.		
Four hours lecture, one hour laboratory.			Two hours lecture.		
Introduction to American Film as a component of art, history, culture and business. How Hollywood has shaped an industry that has come to reflect many aspects of the American experience. American cinematic history, terminology, economic structure and cultural importance. Skills and insight into watching films critically. Development of analysis and writing skills.			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.		
VART 51	VIDEO & STREAMING MEDIA TECHNOLOGIES	4 Units	VART 80	SPECIAL PROJECTS IN VIDEO	1 Unit
			VART 80X		2 Units
			VART 80Y		4 Units
Formerly: F TV 80			Formerly: F TV 80		
Three hours laboratory for every unit of credit.					
May be taken for a maximum of 24 units of credit.					
Individual projects in creative, technical or applied work in television or film by arrangement with the instructor. A limited area is explored at length.					

VART 81B RECORDING ARTS II: AUDIO FOR VIDEO 4 Units*Formerly: FTV 81B***Advisory: Not open to students in MUS 81B**

Two hours lecture, three 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.

VART 84 DIGITAL VIDEO EDITING I 4 Units*Formerly: FTV 84***Prerequisite: Must demonstrate basic computer proficiency.****Two and a half hours lecture, three hours lecture-laboratory, three hours laboratory.**

Basic instruction on the use of the computer for video and film editing. The theory and practice of cinematic editing which is explored through projects, screenings, class exercises, and demonstration. Topics include montage, pace and rhythm, openings, cutting dialogue, use of sound.

VART 85 DIGITAL VIDEO EDITING II 4 Units*Formerly: FTV 85***Prerequisite: VART 84 or VART 86.****Two and a half hours lecture, three hours lecture-laboratory, three hours laboratory.****May be taken three times for credit.**

This course will address advanced topics in digital post-production including sync, nonlinear organization, media management, and the generation of EDL and cut lists. The integration of digital editing and graphics applications and DVD authoring will also be covered.

VART 86 INTRODUCTION TO DIGITAL SOUND, VIDEO & ANIMATION 4 Units*Formerly: FTV 86***Advisory: Not open to students with credit in DRAM 86, MUS 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.

VART 87 MOTION GRAPHICS 4 Units**Advisory: GID 80 or ART 88 or MUS 86 or DRAM 86 or VART 86. Not open to students with credit in GID 84.****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****One and one-half hours laboratory for each one-half unit of credit.****May be taken for twelve units 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.

WOMEN'S STUDIES**Business & Social Sciences Division****(650) 949-7322****www.foothill.edu/bss/****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.

WMN 34 HONORS INSTITUTE SEMINAR IN WOMEN'S STUDIES 1 Unit**Prerequisite: Membership in the Honors Institute.****One hour lecture.**

A seminar in directed reading and discussion in women's studies. Specific topics to be determined by instructor.

WMN 35 DEPARTMENT HONORS PROJECTS IN WOMEN'S STUDIES 1 Unit**One hour lecture.****May be taken six times for credit.**

Seminar in directed reading and discussion in women's studies. Specific topics are determined in consultation with instructor.

WMN 36 SPECIAL PROJECTS IN WOMEN'S STUDIES 1 Unit**2 Units****WMN 36Y 3 Units****WMN 36Z 4 Units****One hour lecture for each unit of credit.****May be taken for a maximum of six units.**

Advanced readings, research and/or project in women's studies. Specific topics determined in consultation with instructor.



OTHER APPROVED COURSES (COURSES WHICH ARE INFREQUENTLY OFFERED)

ACAD 101	Reading Improvement/ Speed Reading	ART 144A	Professional Computer Animation: Graphics Workstation Fundamentals	BUSI 97F	Employee Motivation
ACAD 107	Writing For Public Service Agencies	ART 144B	Professional Computer Animation: Studio Production Techniques	BUSI 97G	Employee Communication
ACAD 109	Notetaking Skills	ART 15L	Design Laboratory	BUSI 97H	Employee Training & Discipline
ACAD 111	Summary Writing	ART 34	Honors Institute Seminar in Art	BUSI 97I	Productive Interviews
ACAD 114	Writing Short Essays	ART 38A	Beginning Lithography	BUSI 97J	Time Management
ACAD 150	Vocabulary Development	ART 38B	Intermediate Lithography	BUSI 97K	Performance Appraisal
ACAD 151	Sentence & Punctuation Skills	ART 38C	Advanced Lithography	BUSI 97L	The Art of Leadership
ACAD 167,X-Z	Standardized Test Preparation for Youth: English	ART 38L	Lithography Laboratory	BUSI 97M	Effective Management Planning
ALAP 104	Adaptive Fitness Internship	ART 45AS,T	Beginning Ceramics	BUSI 97P	Dynamics of Marketing
ALAP 105,X	Adaptive Fitness Directed Study	ART 45BS	Intermediate Ceramics	BUSI 97Q	Effective Marketing Planning
ALPS 104,X,Y	Post Traumatic Disability Training	ART 4L	Drawing Laboratory	BUSI 97R	Successful Product Strategy
ALPS 163,X	Facial Exercises for the Acquired Brain Injury Student	ART 54	Anatomy for Artists	BUSI 97S	Pricing for Profit
ALPS 164,X	Speech/Language Skills for the Nonfluent ABI Student	ART 57	Computer Graphics Applications	BUSI 97T	Dynamics of Distribution
ALPS 167,X,Y	Cognitive Reorganization Skills for ABI Students	ART 65L	History of Women In Art Laboratory	BUSI 97U	Successful Product Promotion
ALPS 174,X	Upper Extremity Exercises for the Acquired Brain Injury Student	ART 67	Italian Art	BUSI 97V	Stress Management
ALPS 176,X	Functional Skills Of Daily Living for the Acquired Brain Injury Student	ART 88	Introduction to Digital Sound, Video & Animation	BUSI 97W	Practicing Management Skills: Ethics & Change
ALPS 184,X	Basic Ambulation Skills for the ABI Student	AVIA 55	Propulsion	CHIN 101-105	Practicing Management Skills: Ethics & Change
ALPS 187,X	Functional Mobility Skills	AVIA 64	Elementary Aerodynamics	CHLD 76	Chinese For International Business
ALTW 220	Banking for the Disabled Student	BIOL 11	Humans & the Environment	CNET 54	Supervised Field Experience
ALTW 221	Human Relationships for the Disabled Student	BIOL 16	Ornithology	CNSL 60A	Systems Network Architecture
ALTW 222	Independent Living Skills for the Disabled Student	BIOL 110	General Biology for ATYP	CNSL 80	College Success: Wellness
ALTW 223	Consumer Purchasing Skills for the Disabled Student	BIOL 170	Marine Mammals for Youth	COIN 60	Women's Issues
ALTW 224	Human Reproduction for the Disabled Student	BIOL 191,X-Z	Writing/Communication Across the Curriculum for Biology & Health	COIN 62	HTML Web Publishing I
ALTW 225	Nutrition & Health Practices for the Disabled Student	BIOL 20	Community Service Learning Across the Curriculum for Biological & Health Sciences	COIN 64	HTML Web Publishing II
ALTW 226	Home Management for the Disabled Student	BIOL 22	Environmental Science	CRLP 72S	HTML Web Publishing III (Dynamic)
ART 141	Multimedia for Artists	BIS 53	Biology of Human Reproduction	CRWR 106S	Interviewing for Career Information
ART 143	Introduction to Computer Graphics Animation for Film & Video	BIS 58	Survey of International Business	CRWR 137	Introduction to Creative Writing: Film
		BIS 95E	Survey of International Marketing	CRWR 160A	Introduction to Creative Writing for Youth Program
		BUSI 150,X-Z	Small Business Export & Import	CRWR 65	Magazine Staff
		BUSI 54	Business Computer Laboratory	DRAM 120A-C	Principles of Acting for Youth
		BUSI 97D	Honors Institute Seminar in Business	DRAM 190,X-Z	Directed Study
		BUSI 97E	Basic Management & Supervision	DRAM 2D-F	Introduction to Dramatic Literature
			Transition to Supervisor	DRAM 86	Introduction to Digital Sound, Video & Animation

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2005-2006

EMTP 103	Mobile Intensive Care Program: Field Internship Phase	HIST 14 HLTH 75	Chicano History Cardiopulmonary Resuscitation	MUS 51C	Advanced Jazz Improvisation
ENGL 10	Introduction to the Novel	ITAL 1-3	Elementary Italian	MUS 62	Basic Sound Reinforcement
ENGL 156	Writing College Transfer Essays	ITAL 61,S	Practical Italian	MUS 64	History of Jazz Styles & Trends
ENGL 16	Introduction to Literary Study	ITAL 190X	Directed Study	MUSP 196	Concert Preparation & Presentation
ENGL 20	American Nature Writing	JAPN 101-105	Japanese for International Business	PHOT 82	Large Format Photography
ENGL 24	Literature of AIDS	JAPN 150	Japanese Cultural Seminar for ATYP	POLI 30	War & Peace in the 20th & 21st Centuries
ENGL 28	Survey of the Literature of Jane Austen	JAPN 190,X- JAPN 50A-F	Directed Study Japanese Cultural Seminar	POLI 6	Black Political Economy
ENGL 29	Mystery & Detective Fiction	JAPN 80	Introduction to Japanese Tutor Training	PSYC 48	Introduction to Psychology of the Unconscious
ENGL 40	Asian American Literature	L A 150,X-Y	Language Arts Laboratory	PSYC 56	Psychology of Self
ENGL 43	Major American Writers	L A 191,Y-Z	Writing/Communication Across the Curriculum for Language Arts	R E 51B	Advanced Real Estate Practices
ENGL 45,S,T	Major European Writers		Directed Study	R E 52B	Legal Aspects of Real Estate II
ENGL 47	Major British Writers	L T 190,X-Z	Non-Print Audio-Visual Production	R E 57,X-Z	Special Appraisal Seminar
ENGL 49	California Literature	L T 55	Technical Processes: Acquisitions	R E 80	Real Estate Exam Seminar
ENGL 52	Analytical Reading	L T 58A	Technical Processes: Cataloging & Processing	RTT 190,X-Z	Directed Study
ENGL 9	Short Story	L T 58B	Computer-Based Information Sources in Libraries	RTT 53	Orientation to Radiation Therapy
ENGR 5	Engineering Applications Programming	L T 65	Supervised Field Experience	SOC 58	Sociology of Violence
ESL 175	Oral Communication Skills III	L T 70	Special Projects in Library Technology	SPAN 101-5	Spanish for International Business
FLAN 61	Intercultural Language Application	L T 90,X-Z	Elementary Latin	SPAN 112-113	Spanish Language & Culture
FREN 101-105	French for International Business	LATN 3	Honors Institute Seminar in Latin	SPAN 31A	Spanish for Medical Personnel
FREN 110	Everyday French 1: A Communicative Approach	LATN 34	Internet Research Strategies & Critical Thinking Skills	SPAN 31B	Spanish for Medical Personnel
FREN 111	Everyday French 2: A Communicative Approach	LIBR 55	Modern English: Function & Grammar	SPAN 35,X-Z	Department Honors Projects in Spanish
FREN 30	French Pronunciation	LING 23	Introduction to Descriptive & Historical Linguistics	SPCH 101A	Public Speaking for ATYP
FREN 50A,B	Practical French	LING 25	Language, Mind & Society	SPCH 104	Group Discussion for ATYP
GEOG 56	Introduction to Spatial Analysis	LING 26	Black English: Structure & Function	SPCH 65	Survey of Oral Communication
GEOG 91	California's White Water Geography	LING 27	Music Reading	T C 83D	Destination Specialist Series: Western Europe
GEOG 92	California's White Water Geography Field Study	MUS 102	Music History Laboratory	T C 90	Contemporary Technology Across the Disciplines in Travel Careers
GERM 101-105	German for International Business	MUS 2AL	Women in Music History		
GERM 30	German Pronunciation	MUS 2E	Intermediate Strings		
GERM 60	Topics in Applied Foreign Language	MUS 47	Intermediate Music Theory, Literature & Composition		
GRDS 141	Multimedia for Artists	MUS 4A,B	Advanced Music Theory, Literature & Composition		
GRDS 37L	Etching Laboratory	MUS 4C	Counterpoint		
GRDS 38L	Lithography Laboratory	MUS 5	Beginning Jazz Improvisation		
GRDS 58	Fashion Illustration	MUS 51A	Intermediate Jazz Improvisation		
GRDS 72	Film Animation	MUS 51B			
GRDS 74	Anatomy for Artists				
GRDS 80	Art Studio Skills				
GRDS 82A,B	Introduction to the History Of Interior Design				
H P 12S	Lifeguard Training				
H P 16BS	Skiing Conditioning				
HIST 12	Economic History of Western Civilization				

“Foothill College has changed the way I interact with my classmates and my community. The on-campus cultural events that are organized by students really opened my eyes to how much difference one student can make. By working closely with faculty and staff, the Foothill Muslim Student Association hosted successful events and educated our peers at a time when the national climate called for just that—education.”

*—Mohammad S. Faheem,
transferred from Foothill College to
major in computer engineering at the
University of California, Davis.*

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Board of Trustees

Foothill College Administration

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Faculty & Staff

Foothill-De Anza Community College District

Foothill College in Los Altos Hills, and De Anza College in Cupertino, are part of the Foothill-De Anza Community College District.

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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Institutional Research & Instruction
Robert Johnstone, Ph.D.

Student Development & Instruction
Rose Myers, M.A.

Technology, Instruction & Work Force Education
Penny Patz, Ed.D.

Deans, Directors & Managers

Division Dean, Adaptive Learning & Disabled Services
Gertrude Gregorio, M.A.

Division Dean, Biological & Health Sciences
Shirley Treanor Barker, Ed.D.

Division Dean, Business & Social Sciences
John B. Mummert, M.A.

Division Dean, Computers, Technology & Information Systems
Chuck Lindauer, Ph.D.

Division Dean, Counseling & Student Services
Penelope Johnson, M.S.

Division Dean, Fine Arts & Communications
Duncan W. Graham, M.A.

Division Dean, Human Performance & Physical Education
Susan Gatlin, M.S.

Division Dean, Language Arts
Karen Alfsen, M.A.

Division Dean, Physical Sciences, Mathematics & Engineering
Peter Murray, M.S.

Dean, Distance & Mediated Learning
Vivian Sinou, M.S.

Dean, Faculty & Staff
Warren Hurd, Ed.D.

Dean, International Education
George Beers, M.S.

Dean, Middlefield & Evening Campuses
Open

Dean, Student Affairs & Activities
Donald Dorsey, M.A.

Dean, Student Outreach & Retention
Frances Gusman, M.A.

Director, Financial Aid & EOPS
Beatriz Chacon, M.A.

Director, Marketing & Communications
Kurt Hueg, B.A.

Associate Director, Bookstore
Romeo Paule

Operations Manager, Facilities
James Zavagno, M.A.

Program Administrator, NASA-Ames Internship & Training Programs
Open

Manager, Police & Safety Services
Open

Faculty & Administrators

Adams, Katherine (1988)
Counseling
A.A., Foothill College; B.S., College of Notre Dame; M.A., Santa Clara University; Ed.D., University of San Francisco

Adams, Lily (1987)
Counseling
B.A., University of the East; M.Ed., Ph.D., Loyola University

Alfsen, Karen (1985)
Division Dean, Language Arts
B.A., M.A., California State, Hayward; M.A., San Francisco State University

Anderson, Mark K. (1989)
Music
B.S., South Oregon State University; M.A., University of Denver

Arca, Rosemary (1991)
Reading, Composition, Academic Skills
B.A., M.A., Santa Clara University; M.A., San Francisco State University

Arenas, José (2000)
Art
B.F.A., San Francisco Art Institute; M.F.A., University of California, Davis

Armstrong, Kathleen (2002)
Chemistry
B.S., San Diego State University; M.S., Ph.D., University of California, San Diego

Austin, Kathleen Ramos (1990)
Director, Diagnostic Medical Sonography Program
ARDMS, AART, CRT, San Jose Hospital, San Jose; B.S., University of Phoenix

Barker, Shirley Treanor (1988)
Division Dean, Biological & Health Sciences
A.A., Prince George's College; B.S., Maryland University, College Park; Advanced Respiratory Therapy Certificate, University of Chicago; M.S., San Francisco State University; Ed.D., University of San Francisco

Barkley, Elizabeth (1984)
Music
A.A., Riverside Community College; B.A., M.A., University of California, Riverside; Ph.D., University of California, Berkeley

Barnett, Elyse (1992)
Anthropology
B.A., Brandeis; Ph.D., Stanford University

Becchine, Virginia E. (1976)
Respiratory Therapy
A.S., Foothill College; B.A., Montclair State University; M.A., Santa Clara University

Beers, George (1981)
Dean, International Programs & Distance Education
B.S., M.S., Indiana University

Bergmann, Janis (1998)
Drama
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

Blodgett, Debra (2004)
Director, Radiation Therapy Program
A.A., Foothill College; B.M., San Francisco Conservatory of Music

Boyett, Douglas (1990)
Physical Education, Team Sports
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

Budd, Deborah (2005)
Vice President, Educational Resources & Instruction
B.A., University of California, Santa Barbara; M.A., Stanford University

Cammin, Falk Renate (1989)
German, English as a Second Language
M.A., The School for International Training; M.A., San Francisco State University

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

Cascarano, Frank (2004)
Physics
B.S., University of California, Davis; M.S., University of California, San Diego

Cashmore, Beatrix (1993)
Counselor
A.B., University of California, Santa Cruz; M.S., San Francisco State University

Cellilo, Gerard (1989)
Computer Information Systems, Counseling
A.A.S., Borough of Manhattan Community College; B.S., M.A., Bradley University; Ed.D., University of San Francisco

Chacon, Beatriz (2005)
Director, Financial Aid & EOPS
A.A. West Valley College; B.A., M.A., San Jose State University

Ciment, Hilary (2001)
Studio Art
B.F.A., Cooper Union; M.F.A., University of Iowa

Coffin, Elvira (1994)
Spanish
B.A., M.A., Monterey Institute of International Studies

Cohen, Vivian (1987)
Counseling
B.A., M.Ed., Boston University

Cormia, Robert (2001)
Computer Information Systems
B.S., California State University, Hayward

Craig, Jody (1999)
Physical Education, Women's Basketball Coach
B.S., California Polytechnic State University, San Luis Obispo; M.A., Saint Mary's College

Crespo-Martin, Patricia (2001)
Spanish
B.A., Universidad de Salamanca; M.A., Florida State University

Daley, Richard (1993)
Chemistry
B.S., California State University, Hayward; Ph.D., University of California, Los Angeles

Dauer, Lesley (2000)
English
B.A., Middlebury College; M.F.A., University of Massachusetts, Amherst; Ed.M., Harvard University

Davidson, Sid H. (1963)
Accounting, Business, Law
A.A., Chaffey College; B.A., M.B.A., San Jose State University; Ed.D., University of California, Berkeley

Davies, Paul (1992)
Music
B.A., San Diego State University; M.A., Ph.D., University of California, San Diego

Davison, Dolores (2000)
History, Women's Studies
B.A., University of California, Davis; M.A., University of Oregon

Day, Bernadette (Bernie) (2001)
Articulation Officer
B.A., University of California, Berkeley; M.S., San Diego State University

Delgado, Leticia (2001)
Counselor, Puente Program
B.S., M.A., San Jose State University

Denver, Cathleen (2000)
Counseling
B.A., California State University, Chico; M.A., California Polytechnic State University, San Luis Obispo

Di Nucci, Linda (1991)
Speech, Language, Reach Program
A.A., West Valley College; B.A., M.A., San Jose State University; R.N., Western Pennsylvania Hospital School of Nursing

DiLeonardo, Christopher (1990)
Geology
B.A., M.S., San Jose State University; Ph.D. University of California, Santa Cruz

Doll, Jamie (2002)
Computer Information Systems
B.A., College of Wooster; M.S., Case Western Reserve University

Dominguez, Arno (1990)
Physical Education
B.A., San Jose State University; M.A., St. Mary's College

Dorsey, Donald (1973)
Dean, Student Affairs & Activities
B.A., Prairie View A & M College; M.A., San Jose State University

Duncan, Kathleen (1993)
Biology
B.S., M.S., San Jose State University

Erickson, Karen (2000)
Biology
B.S., San Francisco State University; M.S., University of California, Davis

Evans, Brian (2002)
Economics
B.A., University of California, San Diego; M.A., University of Hawaii

Farber, John (1981)
Electronics, Personal Computer Service, Computer Software Training
A.A., West Valley College; B.A., San Jose State University

Feig, Konnilyn (1989)
Business, History, Political Science
B.S., B.A., M.A., University of Montana; Ph.D., University of Washington; M.B.A., Golden Gate University

Finnegan, Jordana (2005)
English
B.A., M.A., Ph.D., University of Oregon

Flowers, April (1988)
English, English as a Second Language
B.A., Auburn University; M.A., San Francisco State University

Fong, Bernadine Chuck (1970)
President
 B.A., M.A., Ph.D.,
 Stanford University

Fong, Valerie (2005)
English
 B.A., University of California,
 Santa Cruz; M.A. California
 State University, Hayward

Fraknoi, Andrew (1992)
Astronomy
 B.A., Harvard University; M.A.,
 University of California, Berkeley

Francisco, Marnie (1991)
Mathematics
 B.S., M.S., University of Oregon

Gatlin, Susan (1996)
Division Dean, Human Performance & Physical Education
 B.A., Humbolt State University;
 M.S., South Oregon State College

Gatto, Anthony (2004)
Music
 B.A., Grinnell College; M.M.,
 University of Texas, Austin;
 M.M., D.M.A., Yale University

George, Carol (1987)
Counseling
 B.S., Ohio State University; M.A.,
 Austin Peay State University

Georgiou, Ion (2004)
Mathematics
 B.S., Eastern Illinois
 University; M.S., University
 of Illinois, Champaign-Urbana;
 Ph.D., University of
 California, Santa Cruz

Gerry, Ross (2001)
Physical Education
 B.F.A., M.Ed., Boston University

Giannetto, Kara (2001)
Physical Education, Women's Golf Coach
 B.A., California State
 University, Chico; M.A.,
 San Jose State University

Gibbs, Patricia (1999)
Sociology
 B.A., University of British
 Columbia, Canada; M.A.,
 University of Alberta, Canada;
 M.A., Ph.D., University
 of Hawaii at Manoa

Gillette, Karen (1990)
Librarian
 B.A., University of Oregon, Eugene;
 M.L.S., San Jose State University

Gong, III, Sing (Bubba) (1989)
Physical Education
 B.A., M.A., Stanford University

Gough, Thomas (2004)
Drama
 B.A., Santa Clara University;
 M.F.A., University of
 California, Davis

Graham, Duncan W. (1988)
Division Dean, Fine Arts & Communications
 A.A., De Anza College; B.A.,
 Santa Clara University; M.A.,
 San Jose State University

Gravenhorst, Kurt (1985)
English
 B.S., M.A., University of Nevada,
 Reno; M.A., California State
 University, Dominguez Hills

Gray, Nicole (1996)
Mathematics
 A.B., Dartmouth College;
 M.S., University of Illinois

Green, Mary Jane (2002)
Director, Emergency Medical Technician, Paramedic Program

Gregorio, Gertrude (1980)
Division Dean, Adaptive Learning & Disabled Services
 B.A., University of the Philippines;
 M.A., University of San Francisco

Gusman, Frances (2000)
Dean, Student Success
 A.A., Santa Barbara City College;
 B.A., University of California,
 Santa Barbara; M.A., California
 State University, Santa Barbara

Hack, Sharon (1989)
Travel Careers
 B.A., Brigham Young University

Haight, Elaine E. (1990)
Computer Information Systems
 B.A., University of California,
 Berkeley; M.S., Stanford University

Hale, Melanie (1990)
Psychological Services
 B.A., City College of New York;
 M.S., Columbia University

Hansen, Theresa (Tess) (1991)
English, Composition, Literature
 B.A., Santa Clara University;
 M.A., Stanford University;
 M.A., University of Iowa

Hartwell, Robert (2004)
Music
 B.A., Sonoma State
 University; M.A., San
 Francisco State University

Hawkins, Mary K. (2000)
Adaptive Learning
 B.A. University of the Pacific; M.S.,
 San Francisco State University

Hayes, Diane (1987)
Health
 B.S., M.S., San Jose State University

Heiser, Meredith (1991)
Political Science
 B.A., Stanford University; Diploma,
 Freie Universitaet of Berlin,
 Germany; M.A., Boston University;
 Ph.D., Johns Hopkins University

Hendrickson, Maribeth (1974)
Philosophy
 B.A., M.A., San Jose State
 University; Ph.D., Stanford
 University; J.D., University
 of California, Hastings
 College of the Law

Herman, Ronald (1997)
Photography
 B.F.A., University of Cincinnati;
 M.F.A., University of Notre Dame

Heslet, Marylou M. (1990)
Counseling
 B.A., M.S., California State
 University, Hayward; M.L.A.,
 Stanford University

Holcroft-Burns, Carolyn (2002)
Biology
 B.S.N., Ph.D., University of Kansas

Horowitz, Kenneth L. (1977)
Dental Programs
 D.M.D., Tufts University

Hueg, Kurt (1995)
Director, Marketing & Communications
 B.A., University of California,
 Los Angeles

Huerta, Maristella (2004)
Sociology
 B.A., M.A., University of California, Berkeley

Huerta, Susana (2005)
English
 B.A., University of California,
 Berkeley; M.A., University of California, Santa Cruz

Hurd, Warren (1998)
Dean, Faculty & Staff
 B.S., Wayne State University;
 M.S., De Paul University;
 Ed.D., Northern Illinois University

Jardali, Najwa (1991)
English as a Second Language
 B.A., University of California,
 Santa Barbara; M.A., San Francisco State University

Johnson, Brenda (1991)
Counseling
 B.A., California State
 University, Sacramento; M.A.,
 San Jose State University

Johnson, Charles (1998)
Computer Information Systems
 B.A., M.A., California State
 University, Fullerton

Johnson, Penelope (1997)
Division Dean, Counseling & Student Services
 B.A., University of California,
 Davis; M.S., San Francisco
 State University

Johnstone, Robert (2002)
Vice President, Instruction & Institutional Research
 B.A., Stanford University;
 M.A., San Jose State University;
 Ph.D., University of Oregon

Jordahl, Kathleen (1997)
Photography
 B.A., University of Delaware;
 M.F.A., Ohio University

Josselyn, Carol (1987)
Speech, English
 B.A., Occidental College; M.A.,
 Southern Illinois University;
 Ph.D., University of Washington

Key, S. Jenene (1994)
Radiologic Technology
 B.S., M.S., University of Alabama

Khejjou, Ali (1993)
English as a Second Language
 B.A., English University
 Mohammed V; M.A., San Francisco State University

Kitajima, Lorraine N. (1985)
Health Services Coordinator
 B.S., San Jose State University;
 M.S., University of California, San Francisco

Knobel, Marc (2000)
Mathematics
 A.A., De Anza College; B.A.,
 M.S., San Jose State University

Knopf, Karl (1977)
Adaptive Physical Education
 B.A., San Diego State University;
 M.A., San Jose State University;
 Ed.D., Nova University

Kornegay, Catherine (1977)
Dental Hygiene
 A.S., Foothill College; B.A.,
 San Francisco State University;
 M.A., San Jose State University

Lam, Phuong My (2000)
Mathematics
 B.S., Santa Clara University;
 M.S., California State University, Hayward

Lane, Kimberly (2002)
Counseling
 B.A., Kent State University;
 M.S.S.A., Case Western Reserve University

Lane, Linda (1985)
English, Reading
 B.A., M.S., California State University, Hayward

Lang, Gary (1988)
Sports Medicine, Athletic Trainer
 B.S., California State University, Sacramento; M.S., University of Arizona

Lankford, Scott (1989)
English
 B.A., Williams College; M.A.,
 Ph.D., Stanford University

Larson, Londa (1995)
Chemistry
 B.S., California State University, Hayward; Ph.D., University of California, Los Angeles

Lee, Andrew (2005)
Counseling, Middlefield Campus
 B.A., University of California, Berkeley; M.A., San Jose State University

Lee, Davida C. Vance (1975)
Counseling
 B.S., M.A., O.T.C., San Jose State University

Lee, Keith (1996)
Photography
 B.A., University of California, Los Angeles; M.F.A., School of the Art Institute of Chicago

Lenkeit Meezan, Karen
Allison (2000)
Geographic Information Systems, Geography
 B.S., Stanford University; M.Phil., University of Cambridge

Levine, Ronald (2003)
Director
 District Safety & Security

Lew, Debra (2001)
Counseling
 B.A., University of California, Los Angeles; M.S., California State University, Los Angeles

Lewis, Brian (2001)
English
 B.A., University of California, Santa Barbara; M.A., San Francisco State University

Lindauer, Charles (1997)
Division Dean, Computers, Technology & Information Systems
 B.S.E.E., City College of New York; M.S.E.E., City University of New York; Ph.D., Virginia Polytechnic Institute

Liner, Thomas (2000)
Physical Education, Women's Soccer Coach
 B.A., California State University, Chico

Liu, Tilly (2000)
Counseling
 B.S., M.A., San Jose State University

Loceff, Michael (1984)
Computer Information Systems
 B.S., University of Michigan; M.S., Stanford University

Lopez, Joanne (1996)
Biology
 B.A., Ph.D., University of California, Santa Cruz

Lum, Linda (1977)
Art
 B.A., Marycrest College; M.A., University of Iowa

Lydgate, Diane (1986)
Adaptive Learning, Learning Disability Specialist
 B.A., University of Iowa; M.A., Goddard College

MacDougall, Maureen (1999)
Veterinary Technology
 B.S., Manhattan College; M.S., Pennsylvania State University; D.V.M., Purdue University

Macias, Dixie (1990)
Physical Education, Men's Tennis Coach
 B.S., San Jose State University; M.A., Stanford University

Manske, Kent (1990)
Art, Graphic & Interactive Design
 B.F.A., University of Wisconsin, Eau Claire; M.F.A., School of the Art Institute of Chicago

Marasco, David (2004)
Physics
 B.A., B.S., University of California, San Diego; M.S., Ph.D., Northwestern University

Martinez, Ricardo A. (1994)
Mathematics
 B.S., California State University, Chico; M.S., California State University, Hayward

McLlhiney, Greg (1998)
Computer Information Systems
 B.A., California State University, Chico

Meade, LaDawn (2001)
Computer Information Systems
 B.A., University of Utah; M.S., California State University, Sacramento

Melia, Martin (2001)
Biology
 B.A., University of California, Berkeley; M.A., San Francisco State University

Menager-Beeley, Rosemarie (1991)
Adaptive Learning; Director, Computer Access Center
 B.A., University of California, Berkeley; M.S., California State University, Los Angeles; Ed.D., University of Southern California

Menendez, Natalia A. (1991)
English, Composition, Literature
 B.A., M.A., University of California, Berkeley

Miller, Lawrence S. (1979)
Matriculation
 A.A., Santa Monica College; B.A., M.A., California State University, Long Beach; R.R.T., University of California, Los Angeles Medical Center

Miyasaki-Ching, Cara (1991)
Director, Dental Assisting Program
 A.S., Foothill College; B.S., M.S., University of California, San Francisco

Morasci, Richard (1996)
English as a Second Language
 B.A., University of California, Berkeley; M.A., San Francisco State University

Morriss, Patrick (2001)
Mathematics
 B.A., North Dakota State University; M.S., San Jose State University

Mudge, Rachel (2004)
Mathematics
 B.A., Scripps College; M.S., Santa Clara University

Mummert, John (2001)
Division Dean, Business & Social Science
 B.A., Pennsylvania State University; M.A., University of New Mexico

Murphy, William (2002)
Computer Networking
 B.S., M.S., University of California, Berkeley; J.D., Santa Clara University

Murray, Peter (2005)
Division Dean, Physical Sciences, Mathematics & Engineering
 B.S., M.S., Clarkson University

Myers, Roseann (1996)
Vice President, Student Development & Instruction
 B.A., Hampton University; M.A., Rowan University, Glassboro

Nava, José (1998)
Accounting, Business, Men's Soccer Coach
 B.A., University of California, Los Angeles; M.A., University of California, Berkeley

Ni, Preston (1991)
Speech Communications
 B.S., M.S.B.A., San Francisco State University

O'Loughlin, Rita A. (1989)
Adaptive Physical Education
 A.A., Orange Coast College; B.A., California State University, Chico; M.S., California State University, Hayward

O'Neal, Verley A. (1989)
Computers & Information Systems
 B.S., Princeton University

Oburn, Ronald K. (1975)
Physical Education
 B.S., M.A., California State Polytechnic University

Orrell, Eloise J. (1984)
Director, Radiologic Technology Program
 B.S., University of San Francisco; M.S., Midwestern State University

Osterdock, Leonis (2002)
Director, Pharmacy Technology Program
 B.S., University of the Pacific

Patyk, Jay (2000)
Economics
 B.A., M.A., San Jose State University

Patz, Penny (1989)
Vice President, Technology, Instruction & Work Force Education
 B.S., Ball State University; M.S., Utah State University; Ed.D., University of La Verne

Paye, Anne M. (1989)
English
 B.A., San Jose State University; M.A., Stanford University

Pelzel, Robert E. (1980)
Broadcasting, Radio
 B.A., University of California, Berkeley

Perino, Kathryn (1994)
Mathematics
 B.S., California Polytechnic State University, San Luis Obispo; M.S., Eastern Washington University

Peter, Karl M. (1992)
Director, Veterinary Technology Program
 B.A., Fresno Pacific University; D.V.M., University of California, Davis

Pierce, Robert C. (1971)
History
 B.A., M.A., San Jose State University; Ph.D., University of Wisconsin, Madison

Piparo, Elaine (2001)
Counseling
 B.A., University of California, Berkeley; M.S., San Francisco State University

Ploke, Irving (1990)
Physical Education
 A.A., De Anza College; B.A., M.A., San Jose State University

Pratt, Keith (1998)
English as a Second Language
 B.A., California State University, Hayward; M.A., San Jose State University

Ragey, Joseph (1988)
Drama, Art, Graphic Interactive Design
 B.F.A., Memphis State University; M.F.A., San Francisco State University; M.A., San Jose State University

Reid, Roberta Anne (1990)
Art History
 B.A., California State University, Humboldt; M.A., University of California, Santa Barbara; Ph.D., Stanford University

Ripp, Kathryn (2004)
Physical Education, Women's Volleyball Coach
 B.A., University of Pacific

Rivera-Montanez, Julio (2001)
Spanish
 B.A., University of Puerto Rico; M.A., Brown University

Robbins, Doren (2001)
English, Creative Writing
 B.A., The Union Institute, Cincinnati; M.F.A., University of Iowa

Robinson, Laura (2004)
History
 B.A., University of Arizona, Tucson; M.A., University of California, Los Angeles

Rosenberg, Shanan (2002)
Physical Education, Men's Basketball Coach
 B.A., University of California, Davis; M.A., California State University, Chico

Rouse, Lawrence D. (1975)
Psychology
 B.A., M.A., San Jose State University; Ph.D., Pacific Graduate School of Psychology

Samarov, Kristin (2004)
Counseling
 B.A., Connecticut College, New London; M.A., University of Maryland, College Park

Saterfield, Harry (1975)
Psychology
 B.A., University of California, Berkeley; M.A., San Francisco State University; Ph.D., Stanford University

Sauter, David (2000)
Environmental Horticulture & Design
 B.S.A., Iowa State University;
 M.A., University of Iowa

Sawka, John (1988)
Mathematics
 B.S., Harvey Mudd College; M.S.,
 M.Phil., Ph.D., Yale University

Scattini, Gene (1985)
Physical Education, Men's Golf Coach
 B.A., San Jose State University;
 M.A., University of Nevada, Reno

Schultheis, Lisa (2002)
Biology
 B.S., University of Arizona; Ph.D.,
 University of California, Berkeley

Scott, Walter (1998)
Library Coordinator
 B.A., California State University,
 Fresno; M.L.S., Queens College,
 City University of New York

Seelbach, Eugene (1975)
Mathematics
 B.A., Blackburn College; M.A.,
 Ph.D., University of Wyoming

Serna, Leticia (2001)
Counseling
 B.S., San Jose State University;
 M.S., California State
 University, Hayward

Seyedin, Sara (1998)
Accounting
 B.A., National University of
 Iran; M.P.A., University of
 Colorado; M.B.A., San Jose State
 University; Ph.D., University of
 Northern Colorado

Shaner, Bryan (1978)
Counseling
 B.A., Raymond College; M.S.,
 San Jose State University

Shewfelt, Barbara (1989)
Physical Education
 M.F.A., New York University;
 M.S., Stanford University

Sierra, Angel M. (1972)
*Chemistry, Counseling, Mathematics,
 Physics*
 B.S., California State University,
 Hayward; M.A., M.S., San
 Jose State University

Silverman, Loretta (2000)
Mathematics
 B.A., University of California,
 San Diego; M.S., San
 Jose State University

Sinou, Vivian (2000)
Dean, Distance & Mediated Learning
 M.S., Southern Illinois University

Small, Daphne (2001)
Director, Student Activities
 B.A., University of California,
 Santa Barbara; M.A., San
 Jose State University

Sperbeck, Marshall (1989)
Physical Education, Football Coach
 B.S., University of Nevada-Reno;
 M.A., U.S. International University

Sprague, Phyllis (1998)
Director, Dental Hygiene Program
 A.S., College of the Redwoods;
 A.S., Foothill College; A.S., Cañada
 College; B.A., St. Mary's College;
 M.A., San Jose State University

Spybrook, Janet (2001)
*Adaptive Learning, Learning
 Disability Specialist*
 B.A., Michigan State University;
 M.Ed., University of Washington

Stanley, Brian H. (1980)
Mathematics, Engineering
 B.Sc., University of
 Birmingham, England; M.S.,
 University of Kansas; M.S.,
 Santa Clara University

Starer, Paul (1999)
English
 B.A., University of California,
 Santa Cruz; M.A., San
 Francisco State University

Stevenson, Janis (1975)
Music
 B.A., M.A., San Jose
 State University

Strand, Tomas F. (1969)
Mathematics, Engineering
 B.S.E.E., Massachusetts
 Institute of Technology;
 M.S.E.E., Stanford University

Svenson, Daniel K. (1995)
*Director, Environmental Horticulture
 & Design Program*
 B.S., Oregon State University;
 M.L.A., California Polytechnic
 University, Pomona; M.B.A.,
 Sonoma State University

Svetich, Kella (2005)
English
 B.A., M.A., University of
 Nevada, Reno; Ph.D., University
 of California, Davis

Taketa, Victoria (1988)
Counseling
 B.A., M.A., San Jose
 State University

Thomas, Mary (2001)
Librarian
 B.A., University of California,
 Davis; M.L.S., University of
 California, Los Angeles

Thunen, Charlotte (1986)
Librarian
 B.S., University of California,
 Davis; M.L.S., University of Hawaii

Tomita, Ikuko (2001)
Japanese
 B.A., M.A., Tokyo University of
 Foreign Studies; Ph.D., University
 of California, Santa Barbara

Townes, Shawn (2000)
Speech Communications
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Video Arts
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 Texas; M.F.A., School of
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Counseling
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 State University, Hayward

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 B.S., San Jose State University;
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English as a Second Language
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Speech Communications, Forensics
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Mathematics
 B.S., B.A., M.S., University
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Physics, Engineering
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 Peoples Republic of China;
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Computer Science
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Adaptive Learning
 M.S., Hofstra University

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English, Creative Writing Conference
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Radiologic Technology
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Computer Information Systems
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Computer Information Systems
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 B.A., M.A., University of
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English as a Second Language
 B.A., San Francisco
 State University; M.A.,
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Woolcock, Joseph (1987)
Political Science
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History
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Business
B.S., University of Nebraska; M. A.,
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Atchison, James A. (1964)
Psychology
B.A., Saint Mary's College; M.A.,
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C.G. Institute, Zurich, Switzerland

Banks, Otys D., Sr. (1971)
Social Science
B.S., Bishop College; M.Ed., North
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French
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English
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Astronomy
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Bray, D. Jene (1964)
Counseling
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Reference Librarian
B.A., University of Pittsburgh;
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Bryan, William J. (1965)
Music
B.S., St. Louis Institute of Music;
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*Physical Education: Recreation
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English, Speech
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Counseling, Middlefield Campus
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Chivington, Thomas H. (1966)
Physical Education, Tennis
A.A., Ventura College; B.S.,
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Meteorology, Astronomy
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Men's Basketball, Physical Education
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Spanish
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Mathematics
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English
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History, Sociology
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Art, Film
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Photography
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Anthropology, Philosophy, Sociology
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Spanish
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Electronics Museum
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B.A., M.A., University of Northern
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Fairchild, James R. (1966)
Football, Physical Education
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Animal Health Technology
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English
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Computer Applications
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Art
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Chemistry
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Aviation
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Art
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Art, Computer Graphics
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Physical Education, Track
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Kingson, Robert C. (1965)
English
 B.A., M.A., University of California, Los Angeles; Ph.D., University of California, Berkeley

Klee, John B. (1961)
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Kohs, Gerald D. (1965)
English
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Konigsberg, Charles W. (1973)
Ornamental Horticulture
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Physics
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Electronics
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Drama, Theater Conservatory
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Special Education
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Business
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McCarty, Lois (1967)
Sociology, Psychology
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Philosophy
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Counseling, Honors Institute, Staff Development
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English
 A.A., Santa Ana College; B.A., M.A., Ph.D., U.C. Berkeley

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Mathematics
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Computer Technology and Information Systems
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Mathematics
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Travel Careers
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Biology
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Music
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Chemistry
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Anthropology
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Music
 B.A., Coe College; M.A., D.M.A., Stanford University; Dipl., Hochschule für Musik, Vienna

Nudelman, Dorothea
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English, Speech
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Counseling
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Chemistry, Mathematics, Computer Information Systems
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Football, Physical Education, Track
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Photography
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Chemistry, Computer Information Systems
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Semiconductor Processing
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Physical Education, Intercolligate Women's Golf
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Health
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Accounting, Business
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Journalism
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Schobert-Jones, G. Judith (1966)
German
 B.A., M.A., University of Utah

Schrier, Nancy G. (1969)
English
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Schumacher, Barbara A. (1965)
Physical Education
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Aeronautics
 United States Naval Academy; United States Army Flying School

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Physics
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Dental Hygiene
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Physics
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Computer Information Systems, Mathematics, Philosophy
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Music
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History, Political Science
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 B.S., Stanford University; M.S., University of Wisconsin; Ph.D., University of California, Berkeley

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Psychological Services
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Baseball, Physical Education
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Psychology
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Respiratory Therapy
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Political Science
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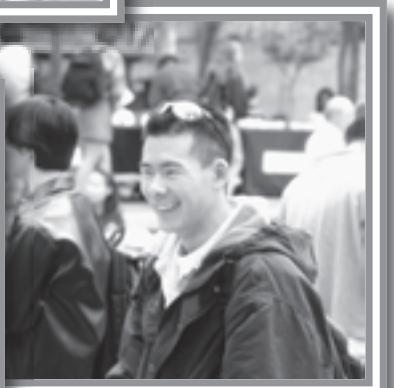
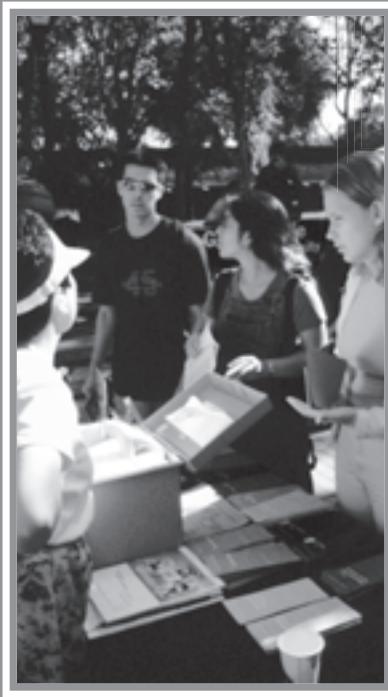
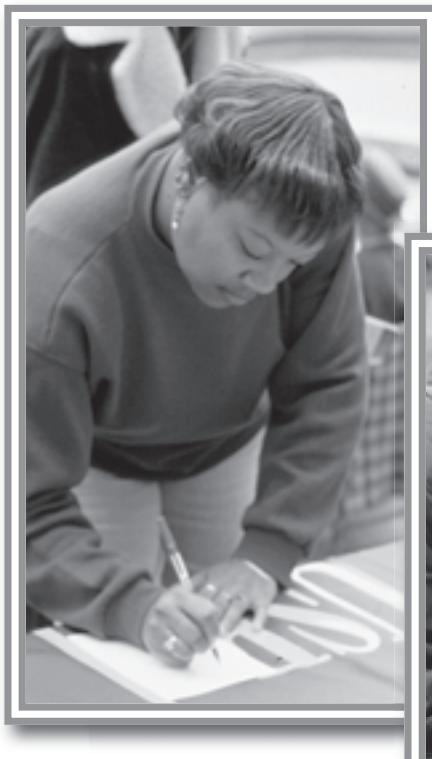
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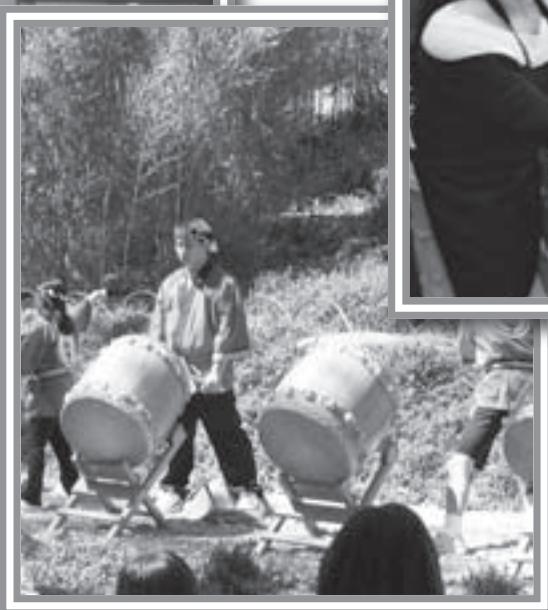
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Campus Information

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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](#)

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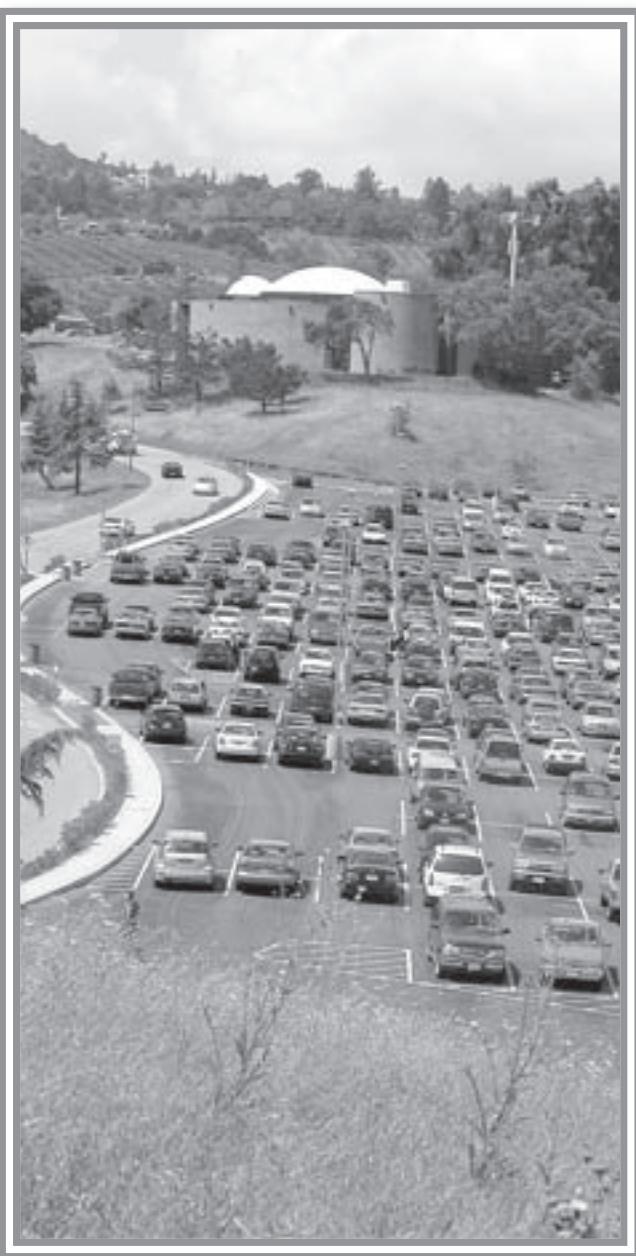
Parking Regulations

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, Room D100.

- 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 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.



Area & Middlefield Campus Maps

FOOTHILL COLLEGE

Main Campus

12345 El Monte Road
Los Altos Hills, CA 94022-4599
(650) 949-7777
(650) 949-7375 (fax)

FOOTHILL COLLEGE

Middlefield Campus

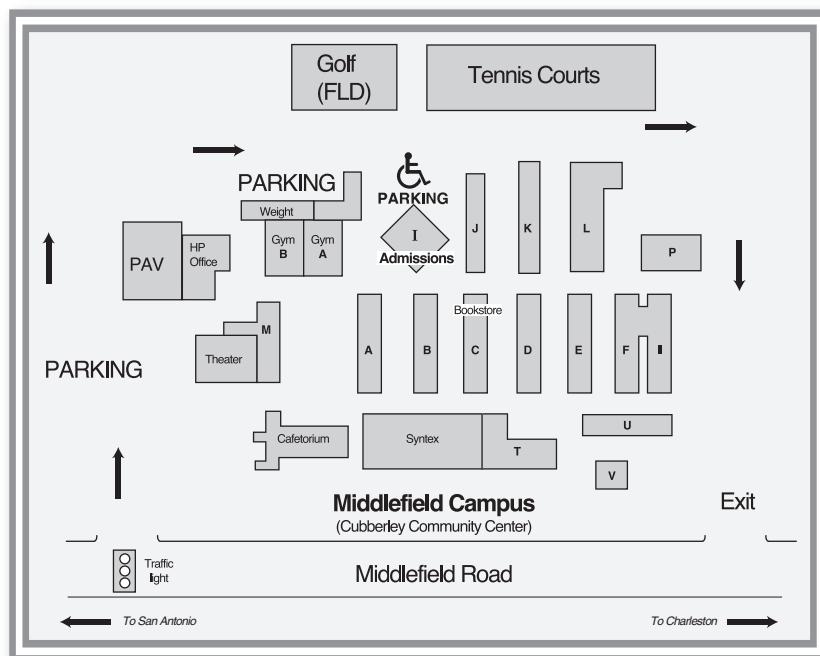
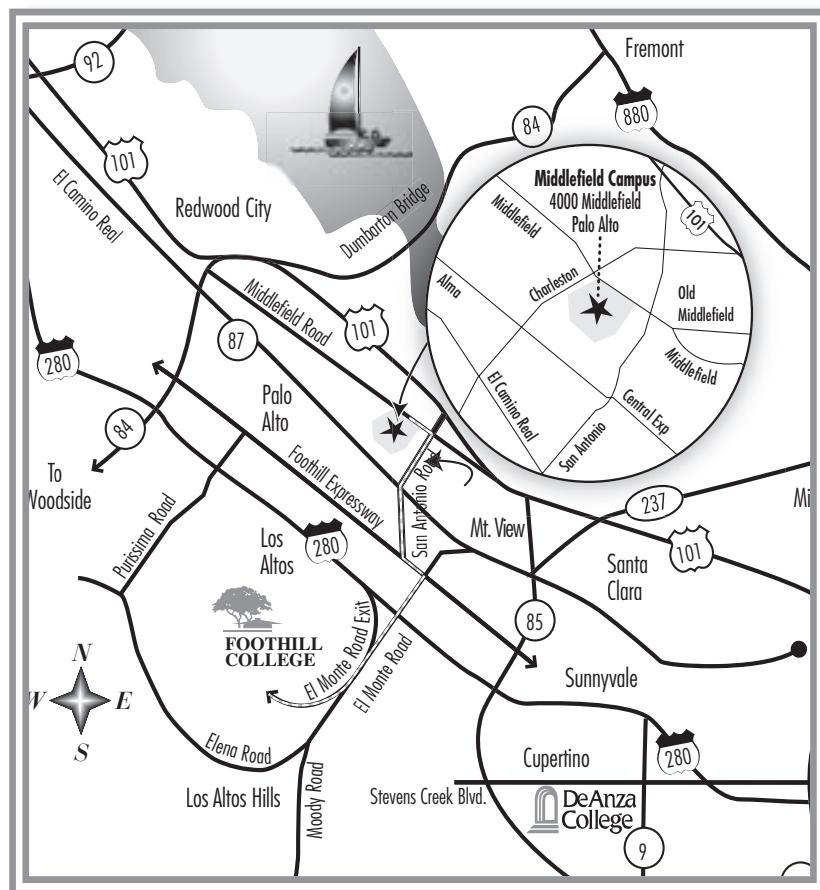
4000 Middlefield Road
Palo Alto, CA 94303-4739
(650) 949-6950
(650) 949-6974 (fax)

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 permits can be purchased in the Admissions Office. Public bus route #52 from the Mountain View CalTrain station serves 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.



Foothill College Campus Map, Key & Legend

PROGRAM/DIVISION	LOCATION	PROGRAM/DIVISION	LOCATION	ACCESS INFORMATION
Academic Senate	1926	Instruction & Educational Resources	1920	Parking
Adaptive Learning Division.....	5801	Instruction & Institutional Research	1916	All vehicles must display a parking permit at all times including weekends. Failure to display a permit will result in a citation. Day-use permits are \$2 (eight quarters) at dispensers located in all student parking lots. Quarterly permits can be purchased at the Admissions Office (Room 1927).
Adaptive Learning Testing Room.....	5801	Instruction & Student Development	1916	
Adaptive P.E.....	2509	Instruction & Technology	3513	
Admissions	1927	Instructional Support Center	3612	
Appreciation Hall	1501	International Programs	5403	
Apprenticeship.....	4057	International Student Admissions.....	5904	
Archives.....	D100	Intramural Programs	5912	
Articulation	5401	Japanese Cultural Center	6601	Access Information
ASFC	6401	KFJC-FM Radio Station.....	6202	
ASFC Paint Room Graphics	6304	Krause Center for Innovation.....	4001	
ASFC Smart Shop/OwlCard	6304	Language Arts	6029	
Assessment Services	5006	Language Arts Lab.....	6308	
Athletic Training Center (ATC)	2821	Library	3501	
Audio Visual/Technology Center	3509	Marketing & Communications Office	5931	
Band Room	1101	Math Center	5960	
Biological & Health Sciences	5211	Matriculation.....	1900	
Bookstore	3526	Middle College	5911	
Business & Social Science.....	3007	Minority Transfer Program	1930	
Campus Abroad	4016	Multicultural Development	1930	
Career Center	1930	Occupational Training Institute (OTI)	5618	
Chancellor's Office	D120	Observatory	4001	
Classified Senate	5027	Older Adult Program & VAMC.....	5801	
Computer Access Center	5901	Outreach & Retention Office	1903	
Computers, Technology & Information Systems	4118	Pass the Torch	5971	
Cooperative Work Experience Education	4057	PE/Human Performance & Athletics	2710	
Counseling	1930	Physical Sciences	4118	
Dental Health Center	5312	Playhouse Theater.....	1301	
Dining Area	3525	Police.....	D100	
Disability Resource Center.....	5801	President's Office.....	1904	
Distance Learning	3610	Psychological Counseling & Services	5933	
District Police & Safety	D100	Quick Copy	4052	
Economic Development	4057	Robert C. Smithwick Theater	1001	
EOPS Tutoring	5999	Sentinel Newspaper	5921	
English Writing Center	3612	Service Learning & Volunteer Center	5912	
Environmental Horticulture & Design	5702	Social Sciences	3007	
ESL Writing Center.....	6308	Student Accounts.....	6201	
Evening College	1901	Student Activities Office	6402	
Extended Opportunity Program/Services (EOPS)	1930	Student Affairs	6201	
Facilities Contracts	2713	Student Success Center	1901	
Faculty Association.....	D140	Temporary Village.....	5901-5999	
Financial Aid	1930	Theater Box Office	1005	
Fine Arts	1701	Transfer Center	1930	
Foothill Café	3525	Transition to Work	5801	
Forum.....	5001	Travel Careers Training Center.....	3103	
Foundation	D100	Tutorial Center & Programs.....	5999	
Health Services	5941	Veterinary Technology.....	4501	
Honors Institute	5425	Wellness Center	2504	
IDEA Lab	1222			

To accommodate construction projects, some offices and services may be relocated on campus.

For access information, call (650) 949-7017.

LEGEND

-  Accessible Bus Stop
-  Accessible Parking
-  Accessible Ramp
-  ATM
-  Construction Area
-  Elevator
-  Emergency Telephone
-  Pay Telephone
-  Pedestrian Path
-  Restroom
-  Smoking Permitted

FOOTHILL COLLEGE
12345 El Monte Road

(Off Interstate 280)
Los Altos Hills, CA 94022-4599
www.foothill.edu
(650) 949-7777

Disability Access Information
(650) 949-7017, voice;
(650) 949-6025, TDD

D = Designated Lot
= General Lot

Walking Time From Parking Lots To Upper Campus			
Lot	Minutes	Lot	Minutes
1	4	4	1
11	7	2	5
		14	3
		3	6
		14	4
		4	7
			6

■ = Ideal Lot

Interstate 280

LOT 2
Campus Entrance 2

LOT 3
Campus Entrance 3

LOT 4-A
Yatta Center
Transit Center

LOT 4-B
Campus
Entrance 4

Football Soccer
Field

LOT 4050

LOT 4-D
4000

Car
Complex

Lohman Theater Spring 2007



Lower Campus Complex Spring 2007



FOOTHILL COLLEGE

www.foothill.edu

Upgrade. Advance.