

2006–2007 Course Catalog



FOOTHILL COLLEGE

www.foothill.edu

Upgrade. Advance.

2006-2007 Academic Calendar

Fall Quarter 2006

June 20	Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
Sept. 25	Instruction Begins
Nov. 10	Veterans Day; Campus Closed
Nov. 23-24	Thanksgiving Recess; Campus Closed
Dec. 12-15	Final Examinations
Dec. 18-Jan. 5	Winter Recess

Winter Quarter 2007

Oct. 20	Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
Jan. 8	Instruction Begins
Jan. 15	Martin Luther King Jr.'s Birthday; Campus Closed
Feb. 16	Lincoln's Birthday; Campus Closed
Feb. 19	Washington's Birthday; Campus Closed
March 27-30	Final Examinations
April 2-6	Spring Recess

Spring Quarter 2007

Jan. 20	Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
April 9	Instruction Begins
May 28	Memorial Day; Campus Closed
June 26-29	Final Examinations
June 29	Commencement Ceremony

Summer Session 2007

July 2-Aug. 10	Six-Week Session
July 2-Aug. 24	Eight-Week Session



The Summer Session 2007 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

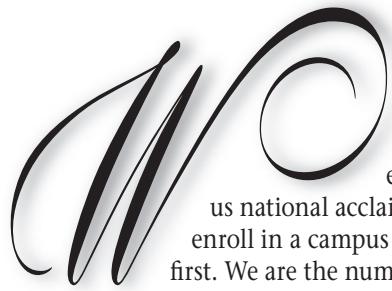
The Foothill-De Anza Community College District and Foothill College have made every reasonable effort to determine that information in this catalog is accurate. Changes may result from California legislature statutes or rules and policies adopted by the Foothill-De Anza Community College District Board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



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Welcome 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.

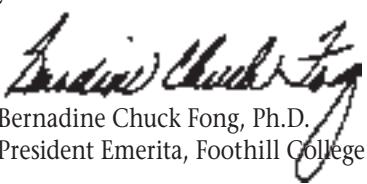
This year will be our busiest period of construction on campus, in our Measures C and E building and renovation program. In early 2005, we began the construction of our two largest projects: a new campus center and demolition of the existing structure; and construction of the new lower campus facilities 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 Winter 2007 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 Stanford, UCLA and UC Berkeley's prestigious Haas School of Business among other top schools. 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.



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



Important Campus Phone Numbers

Area Code 650 unless otherwise noted

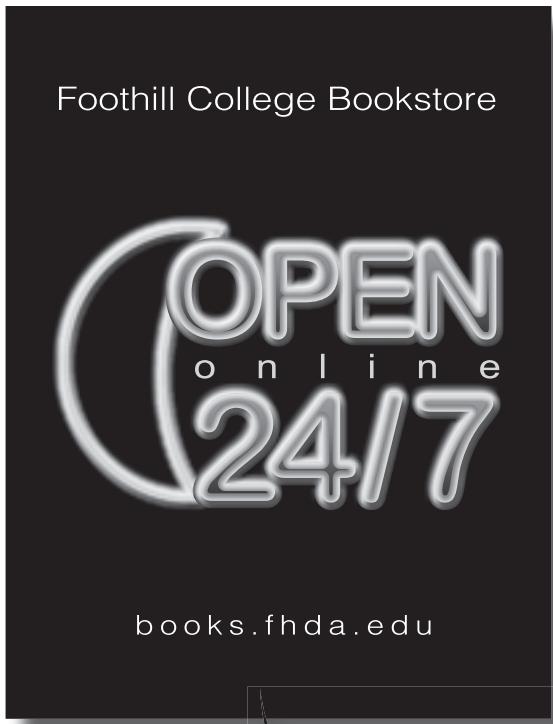
Emergency 911	Lost & Found 949-7313
Adaptive Learning 949-7332	Marketing & Communications 949-7362
Admissions & Records 949-7325	Placement Testing 949-7650
Bookstore 949-7305	Prerequisites/ Matriculation Office 949-7512
Career Center 949-7229	Psychological Services 949-7241
Counseling Appointments 949-7423	Register by Phone 917-0509 or (408) 777-9394
CTIS Computer Lab 949-7303	Student Activities 949-7282
Disability Resource Center 949-7017	Theater Box Office 949-7360
District Police (Non-emergency) 949-7313	Transcript Information 949-7002
English Writing Center 949-7290	Transfer Center 949-7235
ESL Writing Center 949-7923	TDD for Hearing Impaired 948-6025
Evening/Weekend Programs 949-7711	Tutorial Center 949-7447
Extended Opportunity Program & Services (EOPS) 949-7207	Veterans Office 949-7001
Financial Aid 949-7245	Volunteer Center 949-7634
Grades by Phone 917-0509 or (408) 777-9394	■ ■ ■
Health Services 949-7243	Middlefield Campus 949-6950
Honors Institute 949-7638	Admissions 949-6980
IDEA Lab 949-7137	Bookstore 949-6975
Internship Program Office 604-5560	Computer Courses & Labs 949-6957
Language Arts Lab 949-7452	Counseling 949-6959
Library 949-7392	Student Services & Student Center 949-6958

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"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 & Mission

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 & Mission

Our Vision

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

Our Values, Purpose & Mission

At Foothill, our vision is built on the following core values, purpose, and mission:

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

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

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

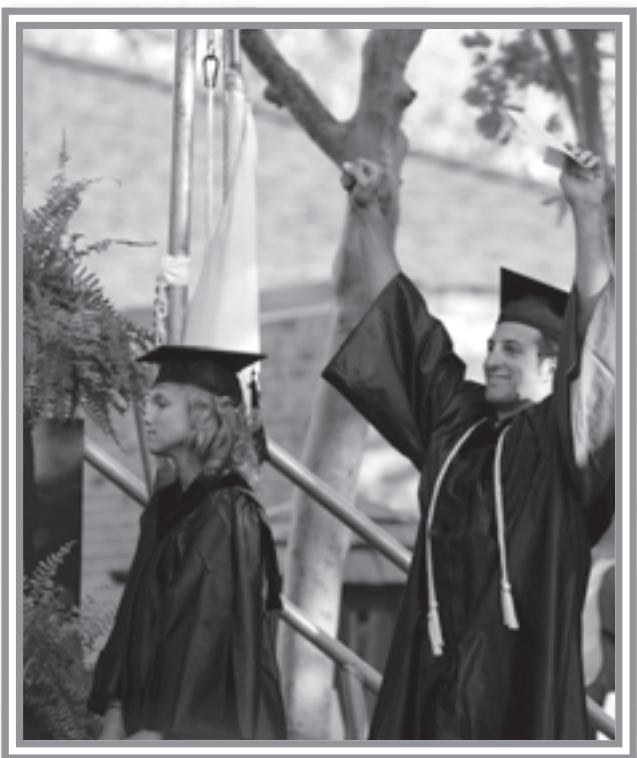
Foothill College Offers:

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

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

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

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





Our History

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

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

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

Foothill: An Outstanding Community College

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

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

Committed to Our Community

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

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

Our educational process should help you:

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

We meet our commitments by providing:

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

We Celebrate Diversity

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

Accreditation

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

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

“The Most Beautiful Community College”

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

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

Measures C & E Campus Improvements

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

Campus Highlights

- All-Weather Track
- Bamboo Garden & Azumaya Meditation Pavilion
- Chinese Heritage Room
- Choral Building & Appreciation Hall
- Computer Centers
- Dental Health Clinic
- Football Stadium
- Full-Service Web Site at www.foothill.edu

- Golf Instruction Complex
- Hubert H. Semans Library & Instructional Support Center
- Japanese Cultural Center
- Krause Center for Innovation
- Language Arts Lab
- Math, Physics & Chemistry Center
- Middlefield Campus in Palo Alto
- Multimedia Arts IDEA Computer Lab
- Observatory
- 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 Opens 2007

In 2004, Foothill College closed the Campus Center to begin preparations for demolition of the existing structure and the construction of an entirely new center set to open in 2007.

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 by accessing www.foothill.edu.

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

- 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:

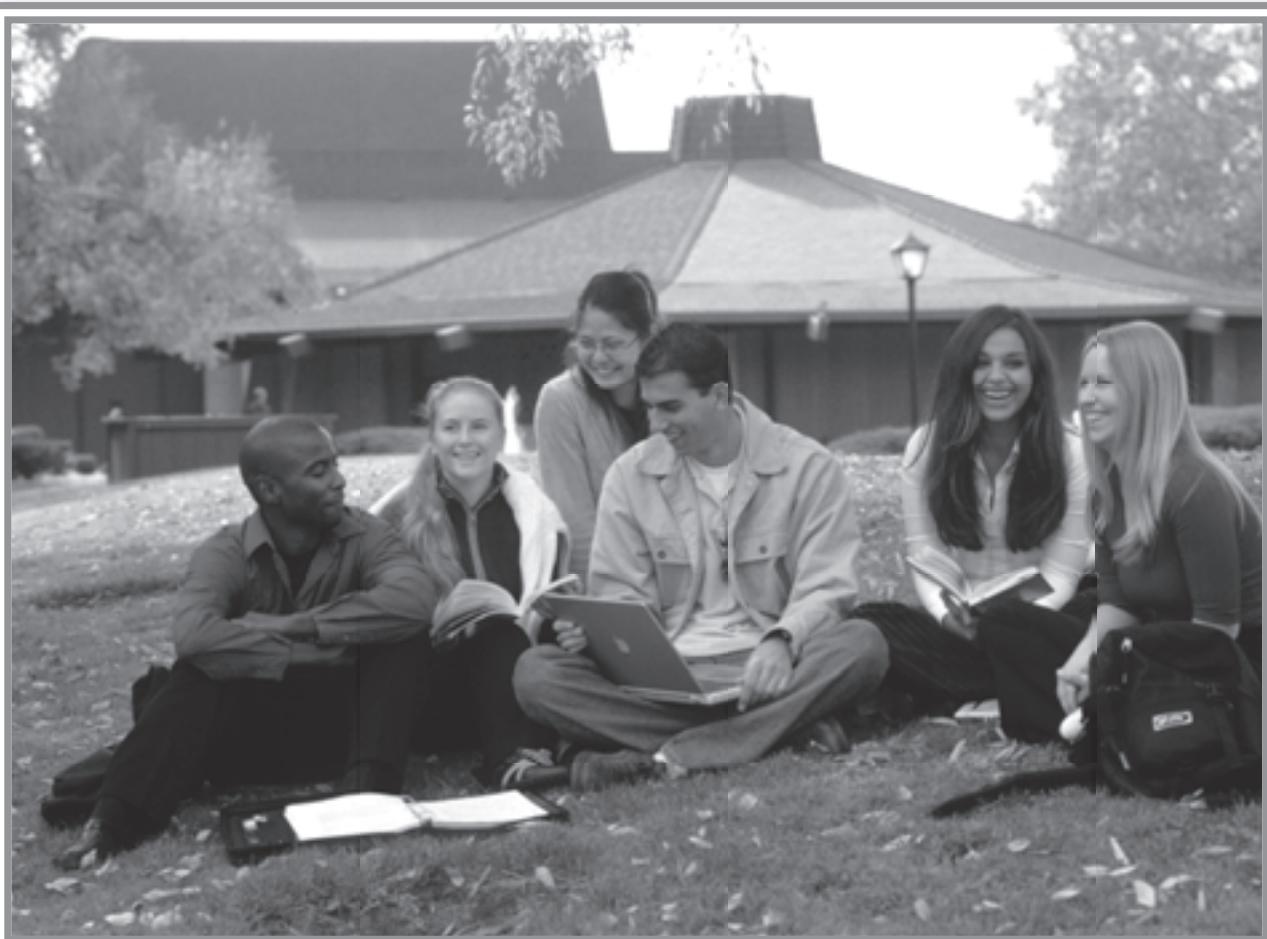
- Administration
- Advocacy
- Broadcast communication
- Budget development
- Decision making
- Event coordination
- Goals and objectives
- Governance
- Group dynamics
- Leadership theory and styles
- Marketing
- Organizational development
- Parliamentary procedure
- Planning
- Policy development and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

Student Services & Programs

Student Development Services

Admission & Placement Testing Services

Placement Tests

Campus Support Centers

Personal Support Services

Special Assistance Services

Special Studies & Programs

Student Services & Programs

Student Development Services

Matriculation

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

Our responsibility is to provide:

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

Your responsibility is to:

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

Orientation

The CNSL 50: Introduction to College Course

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

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

Counseling

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

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

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

Career/Transfer Center

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

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

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

Each quarter, the Career/Transfer Center compiles a comprehensive calendar of workshops, events and campus tours. Transfer workshops include transfer admission agreements, essay writing for college applications, choosing a college, UC applications, and preparing to

transfer to a private university. For more information, call (650) 949-7235. Career workshops include resume writing basics, resume writing critique, interviewing tips, choosing a college major, job search strategies, internships and salary negotiation. For more information, call (650) 949-7229.

To pick up a copy of the calendar, visit the Career/Transfer Center in Room 1930 or access www.foothill.edu/transfer.

Admission & Placement Testing Services

Student Classifications

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

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

Placement Tests

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

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

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

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

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

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

Campus Support Centers

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, Physics & Chemistry (PSME) Center

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

Media Center

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

Foothill Observatory

Operated by the Peninsula Astronomical Society, the Foothill Observatory offers weekly public programs. These programs allow Foothill students and the public to view the day and evening sky with the observatory's large astronomical telescope. The observatory is located in Building 4001. For hours of operation, call (650) 949-7334.

Tutorial Center

As a Foothill student, you have access to free tutoring in the Tutorial Center during day and evening hours. Visit the center in Room 5999 for assistance in a variety of subject areas. The Tutorial Center is home to drop-in tutoring, appointment tutoring and EOPS tutoring. For hours, directions, tutor schedules or more information, call (650) 949-7444 or access www.foothill.edu/tutor.



Writing Centers

English

Writing Center consultants are available to give you advice for writing assignments, job and college applications, and essay examinations. If you are enrolled in composition courses ENGL 110, 1A or 1B, you are strongly encouraged to use the center. The center accepts appointments and drop-ins. Visit Room 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, and 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. For psychological services appointments or information, visit Room 5933 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 placement testing is available to qualifying students.

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

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

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

EOPS/CARE for Disadvantaged Students

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

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

The EOPS and CARE offices are located in the Student Development Center in Room 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 e-mail XuerebCarmela@foothill.edu.

Refunds & Grading Options for Students Called to Active Military Service

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

- **Refund:** Petition for an official withdrawal with a full refund of enrollment fees, student fees and non-resident tuition, if applicable. You'll receive a full refund for all books and materials purchased from the college bookstore.
- **Credit:** Petition for an official withdrawal with credit for enrollment fees, student fees and non-resident tuition, if applicable, toward future enrollment. You may later opt to receive a refund.
- **Grade of Incomplete:** Request a grade of I (Incomplete) from the instructor. Regulations require you to complete the course within one year, but you can request an extension in special circumstances.

Forms for these services are available in the Admissions & Records Office in Room 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
E-mail: 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.

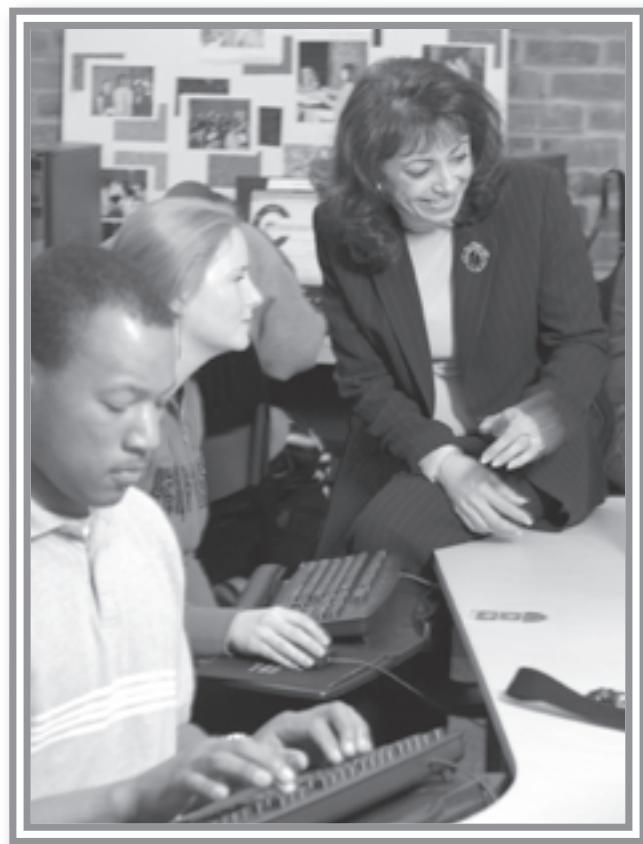
Evening College

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 e-mail account.

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





International Programs

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

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

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

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

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

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

Internship Program

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

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

To get started, attend the program's on-campus information sessions, access internships.fhda.edu, e-mail internships@fhda.edu or call (650) 604-5560.



Middle College: The High-School Alternative

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

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

Middlefield Campus/Off-Campus Programs

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

The Middlefield Campus, located at the Cubberley Community Center in Palo Alto, is a full-service campus. It offers computer labs, an art lab, student lounge, gyms, weight room and classrooms. The Middlefield Campus is also home to the Foothill REACH, Paramedic, EMT 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 placement testing services. We can process all admissions and registration transactions at either the 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.

Project Veterans Program

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

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

Short Courses

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

The Short Courses Office is located at De Anza College in 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

2006-2007 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 \$105 per unit, and the foreign student tuition fee is \$116 per unit.

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

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

*Fees are subject to change by California legislative action.

Instructional Materials Fees

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

Textbooks & Supplies

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

Estimated Annual Cost of Attending Foothill College

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

2006-2007 Cost of Attendance[†]

California Resident (9 months)	Reside At Home	Reside Away From Home	Less Than Half Time
Fees	\$840§	\$840§	\$317
Books / Supplies	\$1,314	\$1,314	\$1,314
Room / Board	\$3,321	\$8,676	N/A
Transportation	\$1,062	\$1,062	\$1,062
Misc. / Personal	\$2,466	\$2,466	N/A
Total	\$9,003	\$14,358	\$2,693

§Based on institutional average 15 units x \$17 per unit = \$255 + \$12 Health Fee + \$13 Campus Center Use Fee* x 3 Quarters = \$840.

Non Resident (9 months)	At Foothill College
Tuition (per unit)	\$ 101
Fees	5,346
Books / Supplies	1,314
Room / Board	8,676
Transportation	1,062
Misc. / Personal	2,466
Total	\$18,965

†Fees are subject to change.

Examples of Additional Costs

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

Refunds & Repayments

Refunds

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

Repayment

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

Financial Aid

Are You Eligible?

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

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

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

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

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

Federal Aid

To be eligible for federal aid, you must:

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

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 \$1,800 cumulatively at a lower-division undergraduate level from this campus-based program with limited funding. You will begin repaying the loan nine months after you graduate or drop below half-time enrollment. During the repayment period (up to 10 years), you'll be charged 5 percent interest on the unpaid balance.

Federal Subsidized & Unsubsidized Stafford Student Loan

Federal Stafford Loans are made by banks, credit unions, and savings and loan associations. As a first-year undergraduate, you can borrow up to \$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, 2007 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 2006, although strongly encouraged to apply by March 2, have a second deadline of September 2, 2007.

California Community College Transfer Entitlement Award: Is either a Cal Grant A or B. High school seniors who graduate after June 30, 2006, 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.

**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 2006 (adjusted gross income and/or untaxed income)
1	\$14,355
2	\$19,245
3	\$24,135
4	\$29,025
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

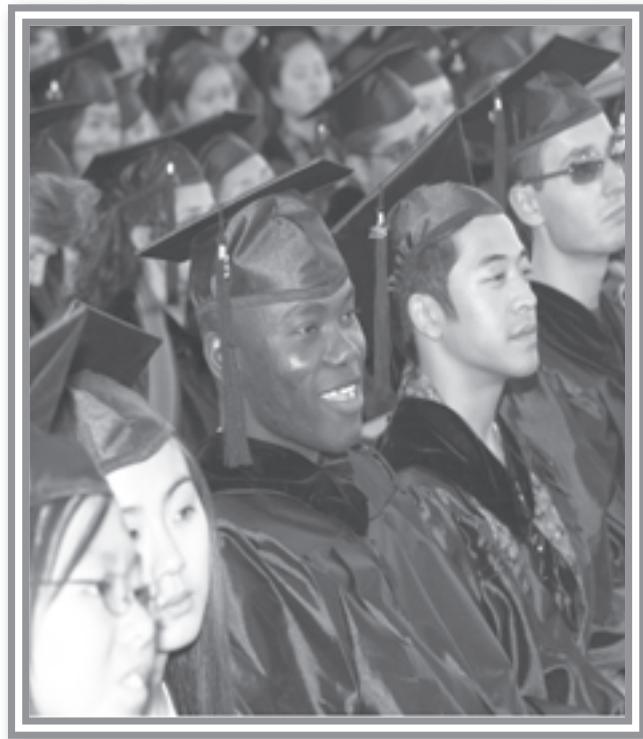
Programs

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

■ **Sheet Metal:** Castroville, (831) 633-6151; Petaluma, (707) 762-0181; San Francisco, (415) 431-1676; San Jose, (408) 263-1712; San Leandro, (510) 483-9035; San Mateo, (650) 652-9672

■ **Sound & Communication:** San Jose, (408) 453-3101; San Francisco, (415) 431-5853

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

Degrees & Certificates Offered at Foothill College

Curriculum sheets describing general education and career training courses required for these programs are located on the Web site and in the Student Development Center in Room 1930. Curriculum sheets are also available online at www.foothill.edu. The quarterly *Schedule of Classes* lists each program alphabetically, the courses offered each quarter and the current contact phone number.

Program	Completion Award	Legend
Accounting	AA, CCC	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	CA Complete this program and earn the Certificate of Achievement. <i>See division office for requirements.</i>
Anthropology	AA	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	
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	
Art—History	AA, CC, CP	
Art—Studio	AA, CP	
Bioinformatics	AS, CCC	
Biological Sciences	AS	
Pre-Dentistry	AS	
Pre-Medicine	AS	
Pre-Pharmacy	AS	
Pre-Veterinary	AS	
Biotechnology	AS, CCC	
Business Administration	AA, CA, CC	
E-Commerce & Electronic Business	CA	
Small Business	CC, CA	

Degrees & Certificates Offered at Foothill College

Program	Completion Award	Legend
Business International Studies	AA, CA, CP	
Business Technology: Office Administration	AS, CC	
Accounting/Spreadsheets	CC	
Business Communication	CC	
Database/SQL	CC	
Internet/Electronic Commerce	CC	
Office Manager—General Office	CCC	
Office Manager—Office Computing	CCC	
Word Processing/Desktop Publishing	CC	
Chemistry	AS	
Child Development	AA, CCC	
Assistant	CCC	
Associate Teacher	CCC	
Master Teacher	CCC	
Site Supervisor	CCC	
Chinese	AA	
Communication Studies	AA, CA, CC, CP	
Computer Science	AS	
Computer Software Development	AS, CCC, SC	
Microsoft Certified Application Developer	SC	
Object-Oriented Software Using C++	CCC	
Object-Oriented Software Using Java	CCC	
UNIX System Operations & Administration	CCC	
Creative Writing	AA	
Database Management	AS, CCC, SC	
Microsoft Database Administration	SC	
Open-Source Database	SC	
Oracle Database Administration	CCC, SC	
Oracle Database Developer	CCC, SC	
Dental Assisting	AS, CCC	
Dental Hygiene	AS	
Diagnostic Medical Sonography	AS, CCC	
Drama & The Foothill Theatre Conservatory	AA, CC	
Economics	AA	
Engineering	AS	
English	AA, CC	
Enterprise Networking	AS, CA	



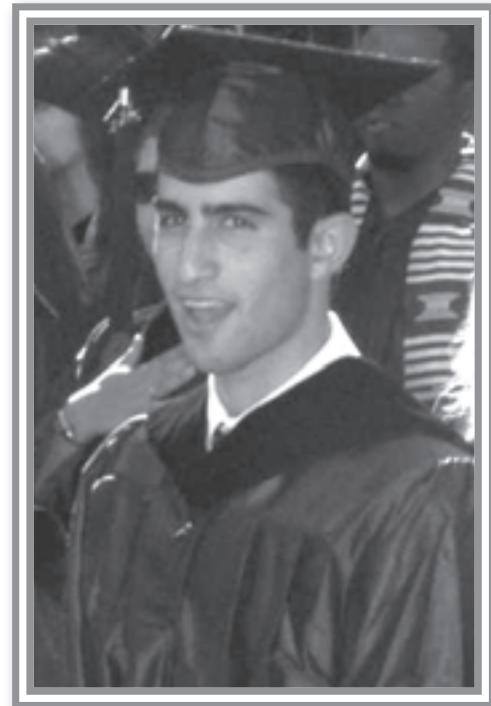
Degrees & Certificates Offered at Foothill College

Program	Completion Award	Legend
A+ Preparation	CA	
Cisco CCNA Academy Certificate	CA	
Cisco CCNP Academy Certificate	CA	
MCSA Preparation Certificate	CA	
MCSE Preparation Certificate	CA	
Network Security	CA	
Wireless Networking	CA	
Environmental Horticulture & Design	AS, CCC, SC	
French	AA, CA, CC, CP	
General Studies		
Humanities	AA	
Science	AS	
Social Science	AA	
Geographic Information Systems (GIS)	CA, CCC	
Geography	AA, CA, CCC	
Geology	AS	
German	CC	
Graphic & Interactive Design	AA, CCC, SC	
Help Desk/Tech Support	AS, CCC	
History	AA	
Individual Studies: Transfer Preparation	AA, AS	
Informatics	AS, CCC, SC	
Interactive & Multimedia Technologies	AS, CCC, SC	
Internet Technology	AS, CCC, SC	
Electronic Business	CCC, SC	
Web-Based Multimedia	SC	
Web Programming	CCC	
Web Administration	CCC	
Web Publishing	CCC, SC	
Japanese	AA, CA, CP	
Law & Society (Pre-Law)	AA	
Leadership & Community Service	CC	
Linguistics	AA, CC	
Mathematics	AS	
Music/General	AA	
Music Technology	AA, CCC, SC	



Degrees & Certificates Offered at Foothill College

Program	Completion Award	Legend
Paramedic	AS, CCC	
Personal Trainer	CCC	
Pharmacy Technician	AS, CCC	
Philosophy	AA	
Photography & Digital Imaging	AA, CC, CCC, SC	
Physical Education/Human Performance	AA	
Athletic Injury Care	AA	
Physics	AS	
Political Science	AA	
Primary Care Associate	AS, CP	
Psychology	AA	
Radiation Therapy Technology	AS	
Radio Broadcasting	AA, CCC, SC	
Radiologic Technology	AS	
Real Estate	AA, CCC	
Respiratory Therapy	AS	
Sociology	AA, CA, CP	
Spanish	AA, CA, CC, CP	
Special Education	AA, CCC	
Theatre Technology	AA, CCC, SC	
Travel Careers	AA, CCC, CP	
Veterinary Technology	AS, CC	
Video Arts	AA, CP, CCC, CS	
Women's Studies	AA	





"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 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 Classifications

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

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

Exceptions to Admissions & Registration Policies

To request an exception to a published policy, you must file an exception petition. These forms are available in the Admissions & Records Office in Room 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 placement testing process and submit necessary transcripts as early as possible.

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

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

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

Residency Requirements

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

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

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

Unit Limitation

An average class load is 15 units per quarter. The maximum number of allowable units per quarter without a counselor's approval is 20 units. If you intend to enroll in more than 20 units, you must obtain a counselor's approval and submit a petition to the Academic Council. The maximum number of allowable units for Summer Session is 12 units. To complete

the petition process, schedule a consultation with a Foothill counselor by calling (650) 949-7423.

Academic Disqualification, Course Substitutions & Graduation Requirements

Make an appointment with your counselor to resolve problems such as disqualification and readmission, course substitutions, and exceptions to graduation requirements. To schedule an appointment, visit Counseling Appointments in the 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 grade point average up to a maximum of 45 units. Eligibility for

academic renewal requires that you meet specific criteria. Consult your counselor for more information.

Add/Drop Date

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

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

Probation

There are two types of probation: academic and progress probation.

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

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

Assignments & Examinations Regulations

As a Foothill student, you're expected to do your own work on examinations and course assignments. Each instructor will enforce certain regulations to ensure honesty. If you violate these regulations, you will be dropped from the class, and the circumstances may be entered in your permanent record. Further difficulty in this respect may result in disqualification from Foothill College. See page 43 of this catalog and/or obtain the *Honor Code Booklet*, available from the Student Affairs & Activities Office, Room 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 currently enrolled in 10 or more units, fees for the first three audit units are waived. Approved audit requests will be accepted beginning the second week of class.

Cancellation of Classes

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

Class Preparation/Progress

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



Class Size & Frequency

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

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

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

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

Course Repetition

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

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

Credit by Examination (Challenge)

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

You can only challenge courses recommended by the division and approved by the dean. There are special limitations for challenging foreign language courses, courses that depend on laboratory or activity experiences, or courses in a sequence. You may not

challenge a course at a lower level than one you have successfully completed in the same department.

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

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

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

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

Transfer Credit from Another Institution

Foothill College accepts credit for lower-division coursework previously completed at a college accredited by one of the six regional accrediting associations. Students must have official transcripts sent to the Foothill College Admissions & Records Office. To be official, transcripts must be sent from college to college or hand-delivered in a sealed, unopened college envelope.

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

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

transcripts must be sent from college to college or hand-delivered in a sealed, unopened college envelope.

Final Examinations

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

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

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

Course Grading Categories

Foothill offers course grades in these five categories:

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

Grading Scale

Grade definitions are as follows:

Evaluative Symbols	Grade Points
A+*	Excellent 4.0
A	Excellent 4.0
A-	Excellent 3.7
B+	Good 3.3
B	Good 3.0
B-	Good 2.7
C+	Satisfactory 2.3
C	Satisfactory 2.0
C-**	See note below
D+	Passing, less than satisfactory 1.3
D	Passing, less than satisfactory 1.0
D-	Passing, less than satisfactory 0.7
F	Failing 0.0
P	Pass (at least satisfactory; units awarded not counted in GPA).
NP	No Pass (less than satisfactory, or failing; units not counted in GPA). Not attaining course objectives.

P and NP are assigned to those courses in which student achievement is evaluated on a pass/no pass basis rather than a letter grade (A, B, C, etc.). Pass/No Pass courses are so designated in the announcement of courses section of the catalog.

*In the plus/minus grading system, the A+ grade is calculated the same as the A grade.

**In the plus/minus grading system, the C- grade is not permitted under Title V law.

Incomplete

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

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

Withdraw from College

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

Transcripts

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

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

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

Transcript/Grade Changes

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

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

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

High School Credits at Foothill

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

- The subjects necessary to complete graduation requirements, and the number of quarter credits in each;
- Suggestions for Foothill courses to satisfy these requirements;
- The total number of quarter credits required, including electives; and
- Acceptance of credit for courses taken at Foothill.

When you complete the college courses, request that the Foothill College registrar send a college transcript to your high school. The diploma will be issued in accordance with your school's procedures.

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

Honors Institute

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

The Honors Institute features special courses and co-curricular activities that prepare you for transfer to top colleges and universities; registration assistance to assure access to desired classes; discussions and projects to stimulate intellectual development; 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 PSME Center. Lists of courses with unusual start times are available in these facilities and in the *Schedule of Classes*.

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

Scholastic Honors

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

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

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

- **Dean's List:** Awarded on a quarterly basis to full-time students completing 12 or more Foothill units in one quarter with at least a 3.5 GPA; and part-time students completing a minimum of 12 cumulative units at Foothill College with an overall and quarter Foothill GPA of at least 3.5.
- **President's Medal:** Awarded at the annual commencement ceremony to first-time degree recipients with a 4.0 GPA in all college coursework applicable toward the associate degree, including 60 resident units at Foothill College. To qualify for this award, the student must petition for graduation by May 1, and must attend the commencement ceremony in June.

Student Access to Education Records

The Family Education Rights & Privacy Act, also called FERPA (Section 438, Public Law 93380), requires educational institutions to provide student access to official education records directly related to the student. The act also says you have the right to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate.

Your written consent is required before the college will release personal information from your records to other than a specified list of persons and agencies. These rights extend to present and former Foothill students.

- Education records generally include documents related to admissions, enrollment in classes, grades and related academic information. These records are filed in the Admissions & Records Office.
- The registrar is the college's designated records officer.
- Personal education records will be made available for inspection and review during normal business hours to currently and formerly enrolled students, within 45 days following completion and filing of a written request with the records officer.
- The college may release certain types of directory information unless you notify the records officer that certain or all information cannot be released without personal consent. Directory information may include (1) student name and city of residence, (2) date and place

of birth, (3) participation in recognized activities and sports, (4) dates of attendance, (5) degrees and awards received, and (6) the most recent previous educational agency or institution attended, and (7) height and weight of members of athletic teams, which may be released only by the appropriate athletic staff member or athletic director. Objection to the release of this information must be made in writing to the Admissions & Records Office prior to the first day of instruction of any quarter or Summer Session.

College & District Policies

Academic Honor Code

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

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

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

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

What Is Academic Dishonesty?

The two most common kinds of academic dishonesty are *cheating* and *plagiarism*.

- Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of dishonest, deceptive or fraudulent means.
- Plagiarism is representing the work of someone else as your own and submitting it for any purpose.

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

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

Cheating

1. Copying, in part or in whole, from someone else's test;
2. Submitting work presented previously in another course, if contrary to the rules of either course;

3. Altering or interfering with grading;
4. Using or consulting, during an examination, any sources, consulting others, use of electronic equipment, including cell phones and PDAs, or use of materials not authorized by the instructor; or
5. Committing other acts that defraud or misrepresent.

Plagiarism

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

Other Specific Examples of Academic Dishonesty

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

Consequences of Academic Dishonesty

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

Academic consequences may include:

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

Administrative consequences may include:

1. Be placed on disciplinary probation;
2. Be placed on disciplinary suspension; or
3. Be expelled.

The Student Affairs & Activities Office maintains a record of students who have engaged in academic dishonesty. This information is used to identify and discipline students reported for academic dishonesty more than once. A copy of the *Foothill College Student Conduct, Discipline & Due Process Procedure* is printed in the handbook for each of these groups, and copies are available in the Student Affairs & Activities Office in Room 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 Pat Hyland, Foothill College ADA/504 coordinator and dean of Faculty & Staff, in Room 1905, or call (650) 949-7090.

Non-Discrimination Policy

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

Complaints of discrimination filed by an employee of the district against another employee or student, or a student against an employee of the district shall be referred and handled pursuant to the district *Administrative Procedures: Investigation and Resolution of Complaints Regarding Harassment and Discrimination*. Such complaints should be directed to Don Dorsey, dean of Student Affairs & Activities, located in Room 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 Pat Hyland, Foothill College ADA/504 coordinator and dean of Faculty & Staff, located in Room 1905; or call (650) 949-7090.

Limited English Skills Policy

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

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

Reglamento sobre Limitaciones en el Idioma Inglés

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

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

Reglamento de la No-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, Pat Hyland, dean of Faculty & Staff, is the institution's designated Title IX coordinator. For information, call (650) 949-7090 or visit Room 1905.

Mutual Respect Policy

Foothill College takes all steps necessary to provide a positive educational and employment environment that encourages equal educational opportunities. The college actively seeks to educate staff and students on the deleterious effects of expressions of hatred or contempt based on race, color, national or ethnic origin, age, gender, religion, sexual orientation, or physical or mental disability; and promotes equality and mutual respect among all groups and individuals. Standards of conduct for students and the applicable sanctions for violating the standards of student conduct are contained in the Academic Policies section in the *Course Catalog, Schedule of Classes and Student Handbook*. The handbook is available from the Student Activities Office, Room 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

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 731.*

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 District 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 e-mail messages.
- Attempting to circumvent data-protection schemes or uncover or exploit security loopholes.
- Masking the identity of an account or machine.
- Deliberately wasting computing resources.
- Downloading, displaying uploading or transmitting obscenity or pornography, as legally defined.

- Attempting without district authorization to monitor or tamper with another user's electronic communications, 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, e-mail or voice mail to harass or threaten others.
- Knowingly downloading, displaying or transmitting by use of the district network, communications, pictures, drawings or depictions that contain ethnic slurs, racial epithets, or anything that may be construed as harassment or disparagement of others based on their race, national origin, gender, sexual orientation, age, disability, or religious or political belief.
- Knowingly downloading, displaying or transmitting by use of the district network sexually explicit images, messages, pictures, or cartoons when done to harass or for the purposes of harassment.
- Knowingly downloading, displaying or transmitting by use of the district network sexually harassing images or text in a public computer facility, or location that can potentially be in view of other individuals.
- Posting on electronic bulletin boards material that violates existing laws or the colleges' codes of conduct.
- Using the district network to publish false or defamatory information about another person.

Commercial Use

- Using the district network for any commercial activity without written authorization from the district.

"Commercial activity" means for financial remuneration or designed to lead to financial remuneration.

Copyright

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

Exceptions

Activities by technical staff, as authorized by appropriate district or college officials, to take action for security, enforcement, technical support, troubleshooting or performance testing purposes will not be considered abuse of the network.

Although personal use is not an intended use, the district recognizes that the network will be used for incidental personal activities and will take no disciplinary action provided that such use is within reason and provided that such usage is ordinarily on an employee's own time; is occasional; and does not interfere with or burden the district's operation. Likewise, the district will not purposefully monitor or punish reasonable use of the network for union business-related communication between employees and their unions Approved 11/17/97; Reviewed by FHDA Board 8/16/99, 7/7/03.

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

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

- Use of threatening, harassing, sexually explicit language or discriminatory language or conduct that violates state and federal law and the Foothill-De Anza Community College District policy on sexual harassment or discrimination;
- Unauthorized posting or transmitting sexually explicit images or other content that is deemed by *etudes*™, the licensee, or any administrator, supervisor or instructor of a course published utilizing *etudes*™ or other online software to be offensive;
- Conduct that constitutes fraudulent behavior as enumerated in state and federal statutes;
- Disruptive behavior online or off-line;
- Vandalism, or any other violation of FHDA Community College District Board Policy. Particular attention should be given to college policy on academic dishonesty, which includes plagiarism or otherwise representing others' work as your own.

All Foothill College students are subject to the same consequences for violations of college policy. They include sanctions and consequences for infractions that are outlined in the student handbook, *Course Catalog* and at www.foothill.edu 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	2005	2004	2003
Aggravated Assault	1	6	4
Arson	0	0	0
Burglary	6	8	11
Homicide	0	0	0
Larceny	80	40	50
Vehicle Theft	0	2	1
Rape	0	0	0
Robbery	1	1	0
Arrests / Year	2005	2004	2003
Alcohol Violations	1	0	1
Drug Violations	1	1	0
Warrants	0	0	0
Other	5	8	9

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 2002:

Students completing A.A./A.S./Certificate: 34.8 percent*
 Students who transferred out: 28.7 percent*
 Total completers/transfers: 65.35 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 79–80.

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
1-49	Transferable to the University of California.
1-99	Transferable to the California State University.
1-199	Foothill AA/AS degree-applicable.
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 Office for copies of the Foothill Associate Degree/Graduation Requirements; CSU GE/Breadth Requirements; and IGETC listings; or access them online at www.foothill.edu.

For help deciding which general education plan to follow, consult a 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 Office in Room 1928 or Evaluations Office in 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:

<ul style="list-style-type: none">■ Cornell University*■ CSU Monterey Bay■ CSU East Bay■ Menlo College■ Mills College■ National Hispanic University■ Notre Dame de Namur University■ SCU Business School■ San Francisco State University (CSU)	<ul style="list-style-type: none">■ San Jose State University (CSU)■ Santa Clara University■ UC Davis■ UC Los Angeles†■ UC Riverside■ UC San Diego■ UC Santa Barbara■ UC Santa Cruz■ University of San Francisco■ University of the Pacific
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*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

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

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

AREA 1—HUMANITIES

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

Letters: CHIN 1-25B; CRWR 6, 36B, 39A, 39B, 40, 41A, 41B, 60; DRAM 2A, 2B, 2C, 8; ENGL 5, 8, 9, 10, 11, 12, 14, 16, 17, 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-25B.

AREA II—ENGLISH

ENGL 1A or ESL 26.

AREA III—NATURAL SCIENCES (WITH LABORATORY)

ASTR 10A with 10L, 10B with 10L; BIOL 1A, 1B, 1C, 9 with 9L, 10, 13, 14, 20, 40A, 40B, 40C, 41; CHEM 1A, 10, 25, 30A; GEOG 1; GEOL 10, 11; HORT 10; MET 10 with 10L; PHYS 2A, 4A, 10.

AREA IV—SOCIAL & BEHAVIORAL SCIENCES

ANTH 1, 2A, 2B, 3, 4, 5, 6, 8; BUSI 22, 53; CHLD 55; ECON 1A, 1B, 9, 12, 25; GEOG 1, 2, 5, 9, 10; GERM 8; HIST 4A, 4B, 4C, 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, 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, 44, 46, 49, 51; PHIL 1, 7, 8; COMM 1A, 1B, 2, 3, 4, 12, 24, 30, 46, 55.

AREA VI—AMERICAN CULTURES & COMMUNITIES

ANTH 4; ART 2D; BIOL 14; CHLD 11; DRAM 8; ENGL 5, 8, 12, 31, 40, 41, 48A, 48B, 48C; HIST 9, 10; MUS 8; PHIL 22; POLI 7; PSYC 22; SOC 23; SOSC 20; COMM 12; SPED 61; WMN 5, 11.

AREA VII—LIFELONG UNDERSTANDING

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

BIOL 8, 19, 45; BUSI 10; CIS 2, 50A, 50B, 60; COIN 51; CNSL 1, 2, 80, 90; CRLP 55, 70; HLTH 21; H P 48; any physical activity course (H P) or ALAP 60, 60X, 61, 61X, 62, 62X, 63, 63X, 64, 64X, 65, 65X, 66, 66X, 70, 70X, 71, 71X, 80, 80X; LIBR 1, 50; PSYC 56; SOC 19, 40; SOSC 20; COMM 2, 10, 12; SPED 52, 61

PETITION FOR GRADUATION

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

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

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

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

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

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 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; PHOT 8; POLI 1, 2, 3, 5, 7, 8, 9, 15, 24; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 49; SOC 1, 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, 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, 10, 12

Biological Sciences: BIOL 1A, 1B, 1C, 1D, 9, 9L, 10, 12, 13, 14, 15, 17, 40A, 40B, 40C, 41; HORT 10

AREA 6—LANGUAGE OTHER THAN ENGLISH

(UC Requirement Only) Proficiency equivalent to two years of high school study in the same language. Transcripts must be on file with Foothill College.

CHIN 2; FREN 2; GERM 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.

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*, 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, 10*, 12
- B-2 Life Science (Biological): BIOL 1A*, 1B*, 1C*, 1D, 9, 9L*, 10*, 12, 13*, 14*, 15*, 40A*, 40B*, 40C*, 41*, 45; HORT 10*
- B-4 Mathematics/Quantitative Reasoning: (Grade C or better) CIS 18; MATH 1A, 1B, 1C, 1D, 2A, 2B, 10, 11, 12, 22, 44, 49, 51 (required for admission to CSU)

AREA C—ARTS, LITERATURE, PHILOSOPHY & FOREIGN LANGUAGE

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

- C-1 Arts (Art, Dance, Music, Theater): ART 1, 2A, 2B, 2C, 2D, 2E, 3, 4A with 4AX, 4C with 4CX, 6, 11, 12, 13, 14, 45A with 45AX, 66, 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; 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, 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; FA 1; FREN 1, 2, 3, 4, 5, 6, 39; GERM 1, 2, 3, 4, 5, 6, 39; HIST 4A, 4B, 4C; HUMN 1A, 1B; JAPN 1, 2, 3, 4, 5, 6, 33; KORE 1, 2, 3, 4, 5, 6; MUS 64A, 64B, 64C, 85A, 85B; PHIL 2, 4, 8, 20A, 20B, 22, 24, 25; PHOT 8; SPAN 1, 2, 3, 4, 5, 6; SPAN 39; 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; CHLD 11; ENGL 12, 31; HIST 10; MUS 8; PHIL 24, 25; PHOT 8; 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 11, 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 <i>(maximum allowed: 2 units)</i>
4. HP 48	

*Effective Fall 2006 through Summer 2007.
For updated information, access www.assist.org*

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Major & Certificate Requirements

ACCOUNTING

AA Degree, Career Certificate

Units required for major: 45, certificate: 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 (4 units)

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

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

or ECON 1B Principles of Microeconomics (5 units)

Elective Courses: (10 units)

ACTG 51A Intermediate Accounting (4 units)

ACTG 64A QuickBooks (2 units)

ACTG 64B MS Excel (2 units)

ACTG 65 Payroll Accounting (4 units)

ACTG 66 Cost Accounting (4 units)

ACTG 68A Advanced Tax Accounting I (4 units)

ACTG 68B Advanced Tax Accounting II (4 units)

ACTG 68C Advanced Tax Accounting III (3 units)

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 Microeconomics (5 units)†

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

Certificate information

Request certificate forms at www.foothill.edu/bss

Accounting Career Certificate (35 units)

Certificate awarded after completion of the accounting core courses.

Accounting Certificate (22 units)

ACTG 1A Financial Accounting I (5 units)

ACTG 1B Financial Accounting II (5 units)

ACTG 64A QuickBooks (2 units)

ACTG 64B Microsoft Excel (2 units)

ACTG 51A Intermediate Accounting (4 units)

or BUSI 65 Payroll Accounting (4 units)

BUSI 22 Principles of Business (4 units)

Tax Accounting Career Certificate (23 units)

ACTG 1A Financial Accounting I (5 units)

ACTG 1B Financial Accounting II (5 units)

ACTG 64B MS Excel (2 units)

ACTG 67 Tax Accounting (3 units)

ACTG 68A Advanced Tax Accounting I (4 units)

ACTG 68B Advanced Tax Accounting II (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)

ADAPTIVE FITNESS

AA Degree, Career Certificate

Units required for major: 41, certificate: 24

Associate Degree Requirements*

Core Courses: (33 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 (3 units)

SPED 62 Psychological Aspects of Disability (4 units)

SPED 70 Introduction to Aqua Fitness Principles (3 units)

SPED 71 Special Topics in the Field of Fitness Therapy (3 units)

Support Courses: (8 units)

BIOL 14 Human Biology (5 units)

BIOL 40B Human Anatomy & Physiology (5 units)

or BIOL40C Human Anatomy & Physiology

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)
 SPED 67Y Adaptive Fitness Directed Study (3 units)
 SPED 69 Special Education Strategies & Practicum (4 units)
Adaptive Fitness Technician Career Certificate (24 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 (3 units)
 SPED 70 Introduction to Aqua Fitness Principles (3 units)
 SPED 71 Special Topics in the Field of Fitness Therapy (3 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)

Elective Courses: (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)

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 (4 units)
 or ANTH 4 Indians of North America (4 units)
 ANTH 8 Introduction to Archaeology (4 units)

ART: GENERAL

AA Degree, Certificate of Proficiency

Units required for major: 40.5, certificate: 40.5

Associate Degree Requirements*

Core Courses: (25.5 units)

ART 72 Studio Art Portfolio (3 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: (15 units)

ART 2A Art History (4 units)
 ART 2B Art History (4 units)
 ART 2C Art History (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)

*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 19A Painting (3 units)
 ART 19B Painting (3 units)
 ART 19C Painting (3 units)
 ART 20B Color (3 units)
 ART 44 Ceramic Sculpture (3 units)
 ART 45A Ceramics (3 units)†
 ART 45B Ceramics (3 units)
 ART 45C Ceramics (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 80 Mural Making: A Community Art Project (3 units)
 ART 86 Painting with the Computer (3 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)
 GID 60 Careers in the Visual Arts (2 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 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 of Completion, Certificate of Proficiency

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

Associate Degree Requirements*

Core Courses: (32.5 units)

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

Support Courses: (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)
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 Art History (4 units)
 ART 2B Art History (4 units)
 ART 2C Art History (4 units)

ART: STUDIO

AA Degree, Certificate of Proficiency

Units required for major: 45, certificate: 45

Associate Degree Requirements*

Core Courses: (36 units)

ART 72 Studio Art Portfolio (3 units)
 ART 2A Art History (4 units)
 ART 2B Art History (4 units)
 ART 2C Art History (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)

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 Painting (3 units)
 ART 19B Painting (3 units)
 ART 19C Painting (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 (3 units)
 VART 20 Video Production I (4 units)
 or GID 20 Video Production I (4 units)

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 (3 units)

Three-Dimensional Art

ART 5B Three-Dimensional Design (3 units)
ART 43 Mold Construction for Ceramics (3 units)
ART 44 Ceramic Sculpture (3 units)
ART 45A Beginning Ceramics: Handbuilding (3 units)†
ART 45B Beginning Ceramics: Potter's Wheel (3 units)
ART 45C Advanced Ceramics (3 units)
ART 45D Advanced Ceramics: Decorating Techniques (3 units)
ART 45F Low Temperature Firing (3 units)
ART 70 Kiln Design, Construction & Operation (3 units)
DRAM 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 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 of Proficiency in Art/Studio

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

ATHLETIC INJURY CARE: P.E. HUMAN PERFORMANCE

AA Degree

Units required for major: 41

Associate Degree Requirements*

Core Courses: (41 units)

HP 1 Introduction to Physical Education (3 units)
HP 52A Clinical Experiences in Sports Medicine I (3 units)
HP 52B Clinical Experiences in Sports Medicine II (3 units)
HP 52C Clinical Experiences in Sports Medicine III (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 Anatomy & Physiology (5 units)
BIOL 40B Anatomy & Physiology (5 units)
BIOL 40C Anatomy & Physiology (5 units)
CHEM 25 Fundamentals of Chemistry (5 units)
or CHEM 30A Survey of Inorganic & Organic Chemistry (5 units)

Elective Courses:

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

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

BIOINFORMATICS

AS Degree, Career Certificate

Units required for major: 52, certificate: 48

Associate Degree Requirements*

Biotechnology Core Courses (13 units)
BTEC 51A Cell Biology for Biotechnology (3 units)
BTEC 52A Molecular Biology for Biotechnology (3 units)
BTEC 65 DNA Electrophoretic Systems (1 unit)
BTEC 68 Polymerase Chain Reaction (1 unit)
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)
COIN 81 Bioinformatics Tools & Databases (5 units)

Career Certificate (48 units)*

MATH 10 Statistics (5 units)
Biotechnology core courses (14 units)
Computer Science core courses (30 units)

BIOLOGICAL SCIENCES

AS Degree

Units required for major: 48–51

Associate Degree Requirements*

Core Courses: (48–51 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 General Chemistry (5 units)
CHEM 1B General Chemistry (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 12A, 12B, 12C Organic Chemistry (6-6-6 units)

Option # 2

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

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

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

BIOTECHNOLOGY

AS Degree, Career Certificate

Units required for major: 72–74.5, certificate: 58–60.5

Associate Degree Requirements*

Certificate Information

Career Certificate Requirements (One Year)§

Suggested course sequence (many courses offered once a year):

Career Certificate (58–60.5 units)

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)

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)

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)

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, BTEC 68 and BTEC 71.

§UC transfer students are strongly recommended to take CHEM 1A, 1B and 1C.

BUSINESS ADMINISTRATION

AA Degree, Certificate of Achievement, Certificate of Completion

Units required for major: 52, certificate: 3–19

Associate Degree Requirements*

Core Courses: (23 units)

ACTG 1A Financial Accounting I (5 units)

ACTG 1B Financial Accounting II (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 (4 units)†

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 Microeconomics (5 units)

MATH 10 Elementary Statistics (5 units)

MATH 11 Finite Mathematics (5 units)‡

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

†A few 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.

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

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 (4 units)

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 (4 units)

BUSI 91L Introduction to Business Information Processing (4 units)
or BUSI 95 Small Business Management (3 units)

COIN 56 Electronic Business (4 units)

COIN 58 Electronic Commerce Project (5 units)

COIN 61 Publishing on the Web using HTML/XHTML (5 units)

COIN 72 Internet Marketing (3 units)

BUSINESS INTERNATIONAL STUDIES

AA Degree, Certificate of Achievement, Certificate of Proficiency

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

Associate Degree Requirements*

Core Courses: (18 units)

ACTG 1A Financial Accounting I (5 units)

ACTG 1B Financial Accounting II (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 Microeconomics (5 units)

‡ECON 1A can only be used once to meet one Business International Studies requirement.

Support Courses: (15)

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)

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 (4 units)

or advanced language proficiency in same language as in previous required courses (level 4/5, or tested proficiency; if student tests in this area, proficiency may count for only 4 units).

Certificate information

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

55 percent of certificate coursework must be completed at Foothill College.

Certificate of Achievement in International Business Strategy (21 units)

BUSI 53 Survey of International Business (4 units)

ECON 1B Principles of Microeconomics (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 major core and supporting courses. English and mathematics proficiency required.

BUSINESS TECHNOLOGY: OFFICE ADMINISTRATION

AS Degree, Certificate of Completion

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

Associate Degree Requirements*

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 Professional Keyboarding I (1 units)

BT 51B Professional Keyboarding II (1 units)

BT 51C Proofreading (1 units)

Business Communication Certificate (20 units)

Requires the prerequisite skills, core and support classes.

Word Processing/Desktop Publishing Certificate (31 units)

Requires the Business Communication Certificate and the following:

CAST 104A Microsoft Word I (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)

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 52B 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:

ENGL 1A Composition & Reading (5 units)

CIS 96Y Special Project (3 units)

BUS 22 Principles of Business (4 units)

COIN 61 Publishing on the Web Using HTML/XHTML (5 units)

*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.

COIN 56 Electronic Commerce (4 units)
CIS 60 Introduction to Business Information Systems (5 units)
CAST 86A Introduction to Adobe InDesign (3 units)
CAST 93A PowerPoint: Effective Presentations (3 units)
CIS 51C Workplace Principles & Practices (3 units)
Office Manager: General Office Career Certificate (59 units)
Requires the Business Communication Certificate and the following:
ENGL 1A Composition & Reading (6 units)
CIS 96Y Special Project (3 units)
BUS 22 Principles of Business (4 units)
ACTG 1A Principles of Accounting I (5 units)
ACTG 1B Principles of Accounting II (5 units)
MATH 105 Intermediate Algebra (5 units)
MATH 10 Elementary Statistics (5 units)
BUS 18 Business Law (4 units)
CIS 51C Workplace Principles & Practices (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; PSYC 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)

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 units)

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)

CHEMISTRY

AS Degree

Units required for major: 50

Associate Degree Requirements*

Core Courses: (50 units)

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)

Mathematics: (10 units minimum)†

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

†Must have a combined 25 units from mathematics and physics.

CHILD DEVELOPMENT

AA Degree, Career Certificate

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

Associate Degree Requirements*

Core 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)

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).

COMM 4 Group Discussion (4.5 units)

COMM 6 The Rhetoric of Political Speech (4.5 units)

COMM 10 Gender, Communication & Culture (4.5 units)

COMM 12 Intercultural Communication (4.5 units)

COMM 53 Forensic Speech & Debate (4.5 units)

COMM 30 Oral Interpretation of Literature (4.5 units)

COMM 46 Voice & Diction (4.5 units)

COMM 53/54, X, Y, Z Intercollegiate Speech & Debate (1.5–4.5 units)

COMM 55 Professional & Career Communication (4.5 units)

Speech Concentration Core (27 units)

COMM 1A Public Speaking (4.5 units)

And two of these:

COMM 1B Argumentation & Persuasion (4.5 units)

COMM 2 Interpersonal Communication (4.5 units)

COMM 3 Fundamentals of Oral Communication (4.5 units)

COMM 4 Group Discussion (4.5 units)

COMM 10 Gender, Communication & Culture (4.5 units)

And three of these:

COMM 6 The Rhetoric of Political Speech (4.5 units)

COMM 12 Intercultural Communication (4.5 units)

COMM 53 Forensic Speech & Debate (4.5 units)

COMM 30 Oral Interpretation of Literature (4.5 units)

COMM 46 Voice & Diction (4.5 units)

COMM 53/54, X, Y, Z Intercollegiate Speech & Debate (1.5–4.5 units)

COMM 55 Professional & Career Communication (4.5 units)

Intercultural Concentration Core (27 units)

COMM 12 Intercultural Communication (4.5 units)

COMM 10 Gender, Communication & Culture (4.5 units)

And two of these:

COMM 1A Public Speaking (4.5 units)

COMM 1B Argumentation & Persuasion (4.5 units)

COMM 3 Fundamentals of Oral Communication (4.5 units)

COMM 4 Group Discussion (4.5 units)

COMM 53 Forensic Speech & Debate (4.5 units)

COMM 30 Oral Interpretation of Literature (4.5 units)

COMM 46 Voice & Diction (4.5 units)

COMM 53/54, X, Y, Z Intercollegiate Speech & Debate (1.5–4.5 units)

COMM 55 Professional & Career Communication (4.5 units)

And one of these:

COMM 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 in a Multicultural Society (4 units)

WMN 11 Women in Global Perspective (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.

And one of these:

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

Rhetoric Concentration Core (27 units)

COMM 1A Public Speaking (4.5 units)
COMM 1B Argumentation & Persuasion (4.5 units)

And two of these

COMM 3 Fundamentals of Oral Communication (4.5 units)
COMM 4 Group Discussion (4.5 units)
COMM 6 The Rhetoric of Political Speech (4.5 units)
COMM 10 Gender, Communication & Culture (4.5 units)
COMM 12 Intercultural Communication (4.5 units)

And two of these:

COMM 2 Interpersonal Communication (4.5 units)
COMM 53 Forensic Speech & Debate (4.5 units)
COMM 30 Oral Interpretation of Literature (4.5 units)
COMM 46 Voice & Diction (4.5 units)
COMM 53/54, X, Y, Z Intercollegiate Speech & Debate (1.5–4.5 units)
COMM 55 Professional & Career Communication (4.5 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)

Certificate of Achievement (12 units)

Any three communications courses.

Certificate of Completion (17 units)

Two of these:

COMM 1A Public Speaking (4.5 units)
COMM 2 Interpersonal Communication (4.5 units)
COMM 3 Fundamentals of Oral Communication (4.5 units)
COMM 4 Group Discussion (4.5 units)
COMM 10 Gender, Communication & Culture (4.5 units)
COMM 12 Intercultural Communication (4.5 units)
And any additional two communications courses

Certificate of Proficiency (27 units)

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

COMPUTER SCIENCE

AS Degree

Units required for major: 54–73, certificate: 26

Associate Degree Requirements*

Core Courses: (35 units)

Prerequisite: MATH 49 or equivalent

CIS 15A-B-C Computer Science I-II-III: C++ (5-5-5 units)
or CIS 27A-B-C Computer Science I-II-III: JAVA (5-5-5 units)
and MATH 1A-B-C Calculus (5-5-5 units)

MATH 22 Discrete Mathematics (5 units)

Elective Courses: (19–20 units)

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

Certificate information

Gaming Skills Certificate: (26 units)

This certificate is designed to prepare the student for a rigorous gaming program. It provides much of the background to the gaming world as well as a foundation in C++ programming.

CIS 55A Introduction to Games (5 units)
CIS 15A Computer Science I: C++ (5 units)
CIS 15B Computer Science II: C++ (5 units)
CIS 55B Introduction to Game Design (5 units)
CAST 70D 3D Modeling & Animation for Multimedia (3 units)
CAST 92 A Introduction to Adobe Photoshop (3 units)

COMPUTER SOFTWARE DEVELOPMENT

AS Degree, Career Certificate, Skills Certificate

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

Associate Degree Requirements*

Core Courses: (25 units)

CIS 15A-B-C Computer Science I-II-III: C++ (5-5-5 units)
or CIS 27A-B-C Computer Science I-II-III: JAVA (5-5-5 units)
and CIS 52A Introduction to Data Management Systems (5 units)

CIS 78 Software Engineering (5 units)

Elective Courses: (20 units)

CIS 12A Fundamentals of VB.NET Programming (5 units)
MATH 22 Discrete Mathematics (5 units)
CIS 15P C++ for Programmers (5 units)
CIS 68A Introduction to Linux & UNIX (5 units)

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

CIS 27P JAVA for Programmers (5 units)

CIS 52B2 Introduction to Oracle SQL (5 units)

Certificate information

All certificates require: English proficiency: ENGL 110, ESL 25, or equivalent; mathematics proficiency: MATH 101 or equivalent; additional units in the major.

UNIX System Operations & Administration Career Certificate (40 units)

Core Courses (30 units):

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

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

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

CIS 68C1 Linux & UNIX System Administration (5 units)

CIS 68C2 Linux & UNIX Networking Administration (5 units)

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

Electives (select 10 units):

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

or CIS 15B Computer Science II: C++ (5 units)

CIS 68E Introduction to PERL (5 units)

CIS 68K Introduction to Python (5 units)

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

Core Courses (25 units):

CIS 15A-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 15 units):

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

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

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

CIS 68E Introduction to PERL (5 units)

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

CIS 27P JAVA for Programmers (5 units)

Career Certificate in Object-Oriented Software Using JAVA (40 units)

Core Courses (25 units):

CIS 27A 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 15 units):

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

CIS 27D JAVA Advanced Features (5 units)

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

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

CIS 68E Introduction to PERL (5 units)

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

Microsoft Certified Application Developer C# Skills Certificate (20 units)

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.

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)

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 (4 units)
or DRAM 5A Writing for the Performing Arts

and one of these:

ENGL 3 Technical Writing (5 units)

ENGL 4 Journalism (4 units)

ENGL 5 Gay & Lesbian Literature (4 units)

ENGL 7 Native American Literature (4 units)

ENGL 8 Children's Literature (4 units)

ENGL 11 Introduction to Poetry (4 units)

ENGL 12 Introduction to African American Literature (4 units)

ENGL 14 Introduction to Contemporary Fiction (4 units)

ENGL 17 Introduction to Shakespeare (4 units)

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

ENGL 26 Language, Mind, & Society (4 units)

ENGL 31 Chicano Literature (4 units)

ENGL 40 Asian American Literature (4 units)

ENGL 41 Literature of Multicultural America (4 units)

ENGL 46A Survey of English Literature (4 units)

ENGL 46B Survey of English Literature (4 units)

ENGL 46C Survey of English Literature (4 units)

ENGL 48A Survey of American Literature (4 units)

ENGL 48B Survey of American Literature (4 units)

ENGL 48C Survey of American Literature (4 units)

*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

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

Certificate in Creative Writing: Genres (15 units)

CRWR 6 Introduction to Creative Writing (5 units)

CRWR 39A Short Fiction (5 units)

CRWR 41A Poetry (5 units)

Certificate in Creative Writing: Fiction (15 units)

CRWR 6 Introduction to Creative Writing (5 units)

CRWR 39A Short Fiction (5 units)

CRWR 39B Advanced Short Fiction (5 units)

Certificate in Creative Writing: Poetry (15 units)

CRWR 6 Introduction to Creative Writing (5 units)

CRWR 41A Poetry (5 units)

CRWR 41B Advanced Poetry (5 units)

Certificate of Reading & Writing: Poetry (14 units)

CRWR 6 Introduction to Creative Writing (5 units)

CRWR 41A Poetry (5 units)

and one of these:

ENGL 11 Introduction to Poetry (4 units)

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

ENGL 46A, B, or C Survey of British Literature (4 units)

Certificate of Reading & Writing: Fiction (14 units)

CRWR 6 Introduction to Creative Writing (5 units)

CRWR 39A Short Fiction (5 units)

and one of these:

ENGL 14 Contemporary Fiction (4 units)

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

ENGL 46A, B, or C Survey of British Literature (4 units)

CIS 96Y Special Projects (3 units)

Select three:

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

CIS 52M Oracle Reports (5 units)

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

CIS 68E Programming in PERL (5 units)

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

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

Other Certificate Information

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

Oracle Database Administration Skills Certificate (15 units)

This certificate contains coursework for the exam(s) one needs to take for the Oracle 10g Certified Associate and Oracle Professional Database Administrator credentials.

CIS 52B Oracle SQL (5 units)

CIS 52E Oracle Database Administration I (5 units)

CIS 52F Oracle Database Administration II (5 units)

Oracle Database Developer Skills Certificate (15 units)

This certificate contains the coursework for the exams one needs to take for the Oracle 10g Developer Certified Associate and Forms Developer Certified Professional credentials. 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)

Open-Source Databases Skills Certificate (23 units)

This certificate will familiarize the student with open-source databases, their creation and administration. It is recommended that the candidate take CIS 52A and CIS 52C prior to beginning this sequence.

CIS 52N MySQL & PHP (5 units)

CIS 52Q MySQL: In Depth (5 units)

CIS 52P PHP: In Depth (5 units)

CIS 52R Essentials of PostgreSQL Administration (5 units)

CIS 96Y Special Projects (3 units)

Microsoft Database Administration Skills Certificate (23 units)

This certificate will familiarize the student with the administration of databases in a Microsoft environment.

CNET 60A Microsoft Windows 2003 Server
or CNET 60B Microsoft Windows 2003 Network Services (5 units)

CNET 60C Microsoft Windows 2003 Network Infrastructure (5 units)

CIS 54C SQL Server Database Design (5 units)

CIS 54E SQL Server Database Administration (5 units)

CIS 96Y Special Projects (3 units)

DATABASE MANAGEMENT

AS Degree, Career Certificate, Skills Certificate

Units required for major: 43, certificate: 15–43

Associate Degree Requirements*

Oracle Database Administration Career Certificate (43 units)

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

CIS 52B Oracle SQL (5 units)

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

CIS 52E Oracle Database Administration I (5 units)

CIS 52F Oracle Database Administration II (5 units)

CIS 52J Oracle PL/SQL (5 units)

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

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

CIS 96Y Special Projects (3 units)

Oracle Database Developer Career Certificate (43 units)

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

CIS 52B Oracle SQL (5 units)

CIS 52J Oracle PL/SQL (5 units)

CIS 52K Oracle Forms (5 units)

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

DENTAL ASSISTING

AS Degree, Career Certificate

Units required for major: 44.5, certificate: 44.5

Associate Degree Requirements*

Core Courses: (44.5 units)

Fall Quarter

DA 50 Orientation to Dental Assisting (3 units)

DA 51A Introduction to Chair-side Dental Assisting (6 units)

DA 62A Dental Sciences (2 units)

DA 53A Introduction to Radiography (3 units)

DA 58 Dental Specialties (1 unit)

DA 71 Infection Control & Hazardous Waste Management (1.5 units)

Winter Quarter

DA 51B Intermediate Chair-side Assisting & Supervised Clinic (2 units)

DA 57 Office Emergency Procedures (2 units)

DA 62B Dental Sciences (2 units)

DA 53B Dental Radiography (2 units)

DA 56 Dental Health Education (1 unit)

DA 60A Dental Office Business Practices (2 units)

DA 73 Supervised Clinical Practice (3 units)

Spring Quarter

DA 51C 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)

Career Certificate in Dental Assisting:

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

BIOL 46 Fundamentals of Pharmacology (4 units)

PSYC 1 General Psychology (5 units)

Winter Quarter

DH 52B Oral Biology (3 units)

DH 60B Dental Radiography (1 unit)

DH 61A Clinical Technique (5 units)

DH 71 Office Emergency Procedures (2 units)

DH 72 Dental Materials (3 units)

DH 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 Session

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)

DENTAL HYGIENE

AS Degree

Units required for major: 127

Associate Degree Requirements*

Core Courses: (127 units)

First Year

Summer Session

DH 50 Orientation to Dental Hygiene (1 unit)

Fall Quarter

DH 52A Oral Biology (3 units)

DH 53 Assessment Procedures in the Dental Hygiene Process (4 units)

DH 54 Pre-Clinical Dental Hygiene (4 units)

DH 59 Survey of Dentistry (1 unit)

DH 60A Introduction to Dental Radiology (2 units)

BIOL 40A Anatomy & Physiology (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.

DIAGNOSTIC MEDICAL SONOGRAPHY

AS Degree, Career Certificate

Units required for major: 86, certificate: 86

Associate Degree Requirements*

Core Courses: (86 units)

Summer Session

DMS 50A DMS Principles & Protocols (4 units)

DMS 50B Sonography & Patient Care (2 units)

DMS 52A Physical Principles of Ultrasound (3 units)

DMS 60A Critique & Pathology (2 units)

DMS 72A DMS Procedures & Applications (6 units)

Fall Quarter

DMS 51A Sectional Anatomy (3 units)

DMS 53A Diagnostic Medical Sonography (2 units)

DMS 54A Gynecology (2 units)

DMS 60B Critique & Pathology (1 unit)

DMS 70A Clinical Preceptorship (8.5 units)

Winter Quarter

DMS 52B Physical Principles of Ultrasound (3 units)

DMS 53B Diagnostic Medical Sonography (2 units)

DMS 55A Obstetrics (2 units)

DMS 60C Critique & Pathology (1 unit)

DMS 70B Clinical Preceptorship (8.5 units)

Spring Quarter

DMS 53C Diagnostic Medical Sonography (2 units)

DMS 55B Obstetrics (2 units)

DMS 56A Vascular Sonography (3 units)

DMS 60D Critique & Pathology (1 unit)

DMS 70C Clinical Preceptorship (8 units)

Summer Session

DMS 72E DMS Procedures & Applications (2 units)

DMS 80A Advanced Principles of Ultrasound (3 units)

DMS 60E Critique & Pathology (1 unit)

DMS 70D Clinical Preceptorship (8 units)

DMS 190X, Y, Z Directed Studies (1-2 units)

Career Certificate (86 units)

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

DRAM 20C Principles of Acting (3 units)

DRAM 20D Principles of Acting (3 units)

DRAM 20E Principles of Acting (3 units)

DRAM 71 Fundamentals of Stage Management (4 units)

Master Courses (12 units)†

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

Support Courses: (12 units minimum)†

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

DRAM 44 Production Projects (5 units)

Elective Courses: (4 units)

Master Courses (see above)†

DRAM 1 Theatre Arts Appreciation (4 units)

DRAM 5B Introduction to Playwriting (4 units)

or DRAM 6 Advanced Playwriting (4 units)

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

DRAM 21A Fundamentals of Theatre Production (4 units)

DRAM 21B Fundamentals of Theatre Production (4 units)

DRAM 21C Fundamentals of Theatre Production (4 units)

DRAM 35 Department Honors Projects in Drama (2 units)

DRAM 47, X, Y Summer Music/Drama Workshop (3-10 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 (2-5.5 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 of Completion (59 units)

31 units of core courses; 12 units of master courses; 12 units of support courses; 4 units of electives.

DRAMA

AA Degree, Certificate of Completion

Units required for major: 59, certificate: 59

Associate Degree Requirements*

Core Courses: (31 units)

DRAM 2A Introduction to Dramatic Literature (4 units)

DRAM 2B Introduction to Dramatic Literature (4 units)

DRAM 2C Introduction to Dramatic Literature (4 units)

DRAM 20A Principles of Acting (3 units)

DRAM 20B Principles of Acting (3 units)

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 Microeconomics (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)

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

Support Courses: (8 units)

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)

Elective Courses: (4 units)†

HIST 4A History of Western Civilization (4 units)

HIST 4B History of Western Civilization (4 units)

HIST 4C History of Western Civilization (4 units)

HIST 9 History of Contemporary Europe (4 units)

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

HIST 18 Introduction to Middle Eastern Civilization (4 units)

HIST 19 History of Asia: China/Japan (4 units)

POLI 3 Introduction to Political Science (5 units)

POLI 15 International Relations (4 units)

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

ENGINEERING

AS Degree

Units required for major: 54

Associate Degree Requirements*

Core Courses: (45 units)

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

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

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

PHYS 4AB-C General Physics-Calculus (5-5-5 units)

Recommended Courses

MATH 2A Differential Equations (5 units)

MATH 2B Linear Algebra (5 units)

Elective Courses: (9 units)

ENGR 6 Engineering Graphics (6 units)

ENGR 20 Introduction to Engineering (4 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)

NANO 76 Introduction to Nanotechnology (5 units)

ENGLISH

AA Degree, Certificate of Completion

Units required for major: 33, certificate: 12

Associate Degree Requirements*

Core Courses: (33 units)

ENGL 1B Composition, Critical Reading & Thinking (5 units)
and ENGL 46A-B-C Survey of English Literature (4-4-4 units)
or ENGL 48A-B-C Survey of American Literature (4-4-4 units)

and two of these:

ENGL 8 Children's Literature (4 units)

ENGL 11 Introduction to Poetry (4 units)

ENGL 14 Introduction to Contemporary Fiction (4 units)

ENGL 17 Introduction to Shakespeare (4 units)

and one of these:

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

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 7 Native American 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 40 Asian American 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)

American Literature (12 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)

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 17 Introduction to Shakespeare (4 units)

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

Literary Genres (12 units)

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)

Multicultural Literature (12 units)

ENGL 5 Gay & Lesbian Literature (4 units)

ENGL 7 Native American Literature (4 units)

ENGL 12 African American Literature (4 units)

ENGL 22 Women Writers (4 units)

ENGL 31 Chicano Literature (4 units)

ENGL 40 Asian American Literature (4 units)

ENGL 41 Literature of Multicultural America (4 units)

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

Linguistics (12 units)
ENGL 23 Modern English: Function & Grammar (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
ENGL 26 Language, Mind & Society (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 68B 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 information
All certificates require ENGL 110, ESL 25, or equivalent; MATH 101 or equivalent; CNET 50 or equivalent (prerequisite to all certificates); additional requirements as listed below.

MCSE Preparation Certificate (12 units)
Designed to prepare the student for the MCSE exams. Completion of this certificate requires the student to take all the MCSA classes as well.
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)

MCDST Preparation Certificate (15 units)
Designed to prepare the student for the Microsoft Certified Desktop Support Technician (MCDST) exam.
CNET 51H Microsoft Windows XP Professional (4 units)
CNET 60G Microsoft Windows XP OS Troubleshooting & Support (4 units)
CNET 60H Supporting Users & Troubleshooting Applications on an MS Windows XP OS (4 units)
CNET 119 Customer Service for IT Professionals (3 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 60B Microsoft Windows 2003 Network Services (4 units)
CNET 60F Microsoft Windows 2003 Exchange Server (4 units)

Wireless Networking Certificate (17 units)
Designed to prepare the student for the CWNA exam.
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (5 units)
CNET 65A Wireless Network Administration (4 units)
CNET 65B Wireless Network Security (4 units)
CNET 65C Wireless Network Analysis (4 units)

Cisco CCNP Academy Certificate (20 units)
Designed to prepare the student to receive their 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)

ENTERPRISE NETWORKING

AS Degree, Certificate of Achievement

Units required for major: 50–53, certificate: 12–23

Associate Degree Requirements*

Core Courses: (42–43 units)

CNET 95A Cable Installation & Termination (2 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68C1 Linux & UNIX Systems Administration (5 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (5 units)
CNET 54B Routers & Router Configuration (CCNA 2) (5 units)
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)
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)

Support Courses: (8–10 units)
Select one of the following groups:

MCSE Group (8 units)
CNET 60B Microsoft Windows 2003 Network Services (4 units)
CNET 60F Microsoft Windows 2003 Exchange Server (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.

Cisco CCNA Academy Certificate (22 units)

Designed to prepare the student to receive their 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)

Network Security Certificate (23 units)

CNET 56A is designed to prepare the student for the CompTIA Security+ exam.

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)

and CNET 56E Windows XP/2000/2003 System Security (5 units)

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

or CNET 54L Network Security I: Firewalls Access Controls & Identity Management (5 units)

CNET 54M CISCO Network Security II: VPNs, Intrusion Detection & Prevention Systems (5 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 Associate in Science degree.

Career Certificate (69 units)

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

†HORT 80 must be taken four times for a total of 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.

Skills Certificate (49 units)

Completion of the core courses with a letter grade of C or better.

†HORT 80 must be taken 2 times for a total of 4 units.

FRENCH

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

Units required for major: 36, certificate: 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.

FREN 14A-B Advanced Conversation II (3-3 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 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 (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-B Humanities & the Modern Experience (4-4 units)

Support Courses: (16 units)

Select 4 categories from the list below. Complete 4 units in each selected category.

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: (30 units)

Complete 4 units in each category.:

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

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

GENERAL STUDIES/SOCIAL SCIENCE

AA Degree

Units required for major: 34

Associate Degree Requirements*

Core Courses: (34 units)

Select 4 categories from the list below. Complete 34 units in each selected category.

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 of Achievement, Career Certificate

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

Associate Degree Requirements*

Core Courses: (17 units)

GEOG 1 Physical Geography (5 units)

GEOG 2 Human Geography (4 units)

GEOG 5 Introduction to Economic Geography (4 units)

GEOG 10 World Regional Geography (4 units)

Support Courses: (8 units)

ANTH 2A Cultural Anthropology (4 units)
or ANTH 2B Patterns of Culture (4 units)

ECON 25 Introduction to the Global Economy (4 units)

GEOG 9 California Geography (4 units)

GEOG 12 Introduction to Geographic Information Systems (4 units)

GEOL 10 Introduction to Physical Geology (5 units)
or GEOL 11 Historical Geology (5 units)

HIST 4A History of Western Civilization (4 units)
or HIST 4B History of Western Civilization (4 units)

MET 10 Weather Processes (4 units)
OCEN 10 General Oceanography (4 units)
POLI 15 International Relations (4 units)

Elective Courses: (8 units)†

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

GEOLOGY

AS Degree

Units required for major: 60

Associate Degree Requirements*

Core Courses: (60 units)
CHEM 1A-B-C General Chemistry (5-5-5 units)
GEOL 10 Introductory Geoscience (5 units)

Physical Geology

GEOL 11 Evolution of the Earth (5 units)

Historical Geology

MATH 49 Precalculus (5 units)
MATH 1A-B-C Calculus (5-5-5 units)
PHYS 4A-B-C General Physics (Calculus) (5-5-5 units)

Recommended Courses

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

GERMAN

Certificate of Completion

Units required for certificate: 15

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

GRAPHIC & INTERACTIVE DESIGN

AA Degree, Career Certificate, Skills Certificate

Units required for major: 58, certificate: 9-58

Associate Degree Requirements*

Core 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 (3 units)

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 Graphic Design Studio I (4 units)

GID 51 Graphic Design Studio II (4 units)

GID 52 Graphic Design Studio III (4 units)

GID 54 Typography (4 units)

GID 61 Service Learning Projects (4 units)

GID 62 Portfolio (4 units)

Elective Courses: (10 units)

Choose any 10 units from the skills certificates listed below.

Certificate information

Students are encouraged to complete skills certificate courses after completing Graphic Design Studio II.

See prerequisite information specific to each class.

*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.

Career Certificate (58 units)
Same as A.A. degree, except general education courses are not required.

Web Design Skill Certificate (12 units)

GID 71 Storyboarding (4 units)

GID 54 Typography (4 units)

GID 56 Web Site Design (4 units)

Motion Graphics Skill Certificate (12 units)

GID 71 Storyboarding (4 units)

GID 84 Motion Graphics (4 units)

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

Video Design Skill Certificate (12 units)

GID 71 Storyboarding (4 units)

GID 20 Video Production I (4 units)

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

Book Arts Skill Certificate (12 units)

GID 90 Book Arts I (4 units)

GID 91 Book Arts II (4 units)

GID 92 Letterpress Printing (4 units)

Printmaking Skill Certificate (12 units)

GID 38 Printmaking I (4 units)

GID 39 Printmaking II (4 units)

GID 40 Digital Printmaking (4 units)

Printmaking Studio Skill Certificate (12 units)

GID 42 Beginning Etching (3 units)

GID 44 Beginning Relief Printmaking (3 units)

GID 46 Beginning Screenprinting (3 units)

GID 48 Monoprinting (3 units)

Illustration Skill Certificate (12 units)

GID 72 Cartooning (4 units)

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

GID 76 Illustration & Digital Imaging (4 units)

Art Media Skill Certificate (9 units)

ART 6 Collage & Composition (3 units)

ART 47 Water Color (3 units)

ART 19A Painting (3 units)

Software Skill Certificate (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)

Level I Certificate (17 units)

Prerequisite 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)

Provides the classwork necessary to support the acquisition of A+ certification. A Level I Certificate is required to obtain this certificate as well as the following classes:

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

CNET 117Z CNET Internship (2 units)†

CNET 60A Microsoft Windows 2003 Server (4 units)

Career Certificate (39 units)

A Level II Certificate is required to obtain this certificate as well as the following classes:

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

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

CNET 117Z CNET Internship (2 units)†

A+ Preparation Certificate (10 units)

Designed to prepare the student to pass the A+ examination independent of other degree requirements. It is highly recommended that the student complete CNET 54A and 95A prior to beginning this sequence.

CNET 116A Introduction to PC Construction Electronics & the Command Line (5 units)

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

HISTORY

AA Degree

Units required for major: 34

Associate Degree Requirements*

Core Courses: (22 units)

HIST 4A-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)

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)

Elective Courses: (4 units)†

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.

HELP DESK/TECH SUPPORT

AS Degree, Career Certificate

Units required for major: 39, certificate: 10-39

Associate Degree Requirements*

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:

†Any combination of CNET 117 (.5 unit), 117X (1 unit), and 117Y (1.5 units) that totals 2 units may be substituted for CNET 117Z.

INDIVIDUAL STUDIES— TRANSFER PREPARATION

AA Degree, AS Degree

Units required for major: 72–75

Associate Degree Requirements*

University Transfer Preparation Tracks

CSU Transfer Preparation Track

Complete a minimum of 45 units from the following:

- A. Choose one course from COMM 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. ASTRO 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.

§Laboratory course. 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; COMM 24, 30; DRAM 1, 2A, 2B, 2C, (same as ENGL 42A, 42B, 42C) DRAM 2D, 2E, 2F, 8, 20A (w/DRAM 20AL), 24, 30, 46; MUS 1, 2A, 2B, 2C, 3A, 3B, 3C, 7, 7D, 7E, 8, 10, 27, 28, 85; PHOT 1 with 1LX, 10, 11; VART 2C, 3; WMN 15.
- 4. CHIN 1, 2, 3, 4, 5, 6; COMM 12, 30, 46; 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; 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; VART 2A, 2B.

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

- 5.1, 2A, 2B, 3, 4, 5, 6, 8, 8L, 8LX, 8LY, 11, 50; ART 2E; CHLD 50A, 55; COMM 10, 12; 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; WMN 5, 11, 15, 21.§

§*Students should complete either POLI 1 or 7 plus HIST 17A or 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 COMM 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:

- 1. 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; MUS 1, 2A, 2B, 2C, 3A, 3B, 3C, 7, 7D, 7E, 8, 10, 27, 28, 85; PHOT 11; VART 2A, 2B, 3; WMN 15.

- 2. 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, 48C, 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.

- 3. One additional course from either #1 or #2.

- 4. Three courses (from at least two different disciplines) from: ANTH 1, 2A, 2B, 3, 4, 5, 6, 8; ART 2E; CHLD 55; COMM 10, 12; 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; WMN 5, 11, 15, 21.

- 5. 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.‡

‡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; BIOL 1A,-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; COMM 55; 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.

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; COMM 10, 12; 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; 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; COMM 1A, 1B, 2, 3, 4, 10, 12, 24, 30, 46, 53, 54 X-Y-Z, 55, 56; 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 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; GID 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; VART 1, 2A-B-C, 3, 20, 21, 53, 65A, 65B, 80 X-Y-Z, 81B, 84, 85, 86; WMN 15

INFORMATICS

AS Degree, Career Certificate, Skills Certificate

Units required for major: 42–43, certificate: 24–43

Associate Degree Requirements*

Core Courses: (39–40 units)

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

CIS 52B Oracle SQL (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)

COIN 78 XML (5 units)

MATH 10 Statistics (5 units)

or PSYC 10 Introduction to Social Research (4 units)

or SOC 10 Introduction to Social Research (4 units)

and 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 Programming in PERL (5 units)

Subject Matter Preparation

The student must show evidence of subject matter preparation in his/her area of emphasis either through taking appropriate coursework (15–20 units minimum) or through applicable work experience (300 hours minimum). The dean in the designated area of emphasis will need to validate that the student is sufficiently prepared.

Program Capstone

Upon completion of the informatics core classes and having shown a sufficient level of subject matter preparation, the student seeking a degree or career certificate is ready to demonstrate competence by either completion of an internship or of an informatics project. In both cases, the basic core of informatics understanding will be coupled with an application to the area of emphasis.

CIS 61Z Informatics Project (3 units)

or CIS 117U CIS Internship (~100 hours) (3 units)

Career Certificate in Informatics (42–43 units)

Program Prerequisites: English proficiency: ENGL 1A, ESL 26, or equivalent; core classes (39–40 units); a demonstration of subject matter preparation; a program capstone project or internship (3 units).

Skills Certificate in Informatics (24–25 units)

Program Prerequisites: English proficiency: ENGL 1A, ESL 26, or equivalent; core classes (39–40 units); a demonstration of subject matter preparation; a program capstone project or internship (3 units); English proficiency: ENGL 110, ESL 25, or equivalent; the following classes (25 units).

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

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

CIS 63A1 Systems Analysis & Design (5 units)

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

MATH 10 Statistics (5 units)

or PSYC 10 Introduction to Social Research (4 units)

or SOC 10 Introduction to Social Research (4 units)

INTERACTIVE & MULTIMEDIA TECHNOLOGIES

AS Degree, Career Certificate, Skills Certificate

Units required for major: 45–46, certificate: 21–46

Associate Degree Requirements*

Core Courses: (31 units)

COIN 51 Fundamentals of Internet Technology (5 units)

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

GID 71 Story Boarding (4 units)

CAST 70A Introduction to Adobe Premiere (3 units)

CAST 52A Introduction to Macromedia Flash (4 units)

CAST 52B Advanced Macromedia Flash (4 units)

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

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

CAST 70C Interactive Multimedia Project (3 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 27A Computer Science I: JAVA (5 units)
COIN 70A Introduction to Programming Using JavaScript (4 units)
or COIN 70B Using JavaScript (4 units)

Elective Courses: (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)
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)

Interactive & Multimedia Technologies: Career Certificate (45–46 units)

Requires: English proficiency: ENGL 1A, ESL 26, or equivalent; Mathematics proficiency: MATH 103/105 or equivalent; core courses (31 units); programming courses (4–5 units); electives (10 units).

Interactive & Multimedia Technologies Skills Certificate (21 units)

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

Web-Based Multimedia Skills Certificate (22 units)

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

INTERNET TECHNOLOGY

AS Degree, Career Certificate, Skills Certificate

Units required for major: 35–41, certificate: 22–41

Associate Degree Requirements***Certificate Requirements**

English proficiency: ENGL 110, ESL 25, or equivalent; Mathematics proficiency: MATH 101 or equivalent; prerequisite: COIN 51 or equivalent; coursework as outlined below for the four major areas.

Electronic Business Skills Certificate (24–27 units)

COIN 56 Electronic Business (4 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)

COIN 72 Internet Marketing (3 units)**COIN 58 Electronic Commerce Project (5 units)****and two from the following:**

CIS 60 Introduction to Business Information Systems (5 units)
BUSI 95 Small Business Management (3 units)
BUSI 22 Principles of Business (4 units)
BUSI 53 Survey of International Business (4 units)

Electronic Business Career Certificate (35–41 units)

Requires all the coursework for a Skills Certificate in E Business, and two from the following:

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

CIS 60 Introduction to Business Information Systems (5 units)**COIN 63 Advanced Topics in Web Publishing (5 units)****and one from the following:**

BUSI 22 Principles of Business (4 units)

BUSI 53 Survey of International Business (4 units)**BUSI 95 Small Business Management (3 units)****Web Programming Career Certificate (39 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)****CIS 27A Computer Science I: JAVA (5 units)****CIS 68A Introduction to Linux & UNIX (5 units)****CIS 68E Introduction to PERL (5 units)****and one from the following:****COIN 91 Introduction to Database-Driven Web Sites (5 units)****CIS 52N MySQL & PHP (5 units)****COIN 86 Server-Side Programming with JSP (5 units)****Web Administration Career Certificate (37 units)****COIN 61 Publishing on the Web Using HTML/XHTML (5 units)****CIS 52A Introduction to Data Management Systems (5 units)****CIS 68A Introduction to Linux & UNIX (5 units)****CIS 68C1 Linux & UNIX System Administration (5 units)****COIN 66 World Wide Web Server Management (3 units)****CIS 68E Introduction to PERL (5 units)****COIN 68 Introduction to CGI Using PERL (4 units)****COIN 91 Introduction to Database-Driven Web Sites (5 units)**

or CIS 52N MySQL & PHP (5 units)

Web Publishing Skills Certificate (23 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 (4 units)

COIN 74A Web Publishing Tools: Dreamweaver (4 units)
or COIN 74B Web Publishing Tools: Dreamweaver Interactive (4 units)

COIN 84 Special Web Projects (5 units)**Web Publishing Career Certificate (37 units)****COIN 61 Publishing on the Web Using HTML/XHTML (5 units)****COIN 63 Advanced Topics in Web Publishing (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.

COIN 70A Introduction to Programming Using JavaScript (4 units)
or COIN 70B Using JavaScript
GID 56 Web Site Design (4 units)
COIN 76 Web Publishing Tools: Multimedia (4 units)
COIN 74A Web Publishing Tools: Dreamweaver (4 units)
or COIN 74B Web Publishing Tools: Dreamweaver Interactive (4 units)
CAST 52A Introduction to Macromedia Flash (4 units)
COIN 82 Images for the Web (3 units)
COIN 84 Special Web Projects (5 units)
Web-Based Multimedia Skills Certificate (22 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 76 Web Publishing Tools: Multimedia (4 units)
CAST 52A Introduction to Macromedia Flash (4 units)
CAST 52B Advanced Macromedia Flash (4 units)
COIN 84 Special Web Projects (5 units)

JAPANESE

AA Degree, Certificate of Achievement, Certificate of Proficiency

Units required for major: 36, certificate: 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.
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 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 major: 30

Associate Degree Requirements*

Core Courses: (13 units)

BUSI 18 Business Law I (4 units)
PHIL 2 Introduction to Social & Political Philosophy (4 units)
POLI 2 Comparative Government & Politics (4 units)
SOC 1 Introduction to Sociology (5 units)
Support Courses: (9 units)
PHIL 8 Ethics (5 units)
POLI 1 American Government (5 units)
POLI 15 International Relations/World Politics (4 units)
SOC 40 Aspects of Marriage & Family (4 units)
BUSI 19 Business Law II (4 units)

Elective Courses: (4 units)†

BUSI 53 Survey of International Business (4 units)
ECON 1A Principles of Economics (Macro) (5 units)
or ECON 1B Principles of Microeconomics (5 units)
ECON 25 Introduction to the Global Economy (4 units)
HIST 4A History of Western Civilization (4 units)

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

LEADERSHIP & COMMUNITY SERVICE

Certificate of Completion

Certificate Requirements

Core courses; elective courses; field placement (360 hours); eligibility for ENGL 1A or ESL 26 & 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 member and a counselor. The certificate is issued through the Counseling Division and 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-Y-Z Leadership Lab (1-2-3 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

LINGUISTICS

AA Degree, Certificate of Completion

Units required for major: 32, certificate: 12

Associate Degree Requirements*

Core Courses: (32 units)

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

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 of Completion in 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*

Core Courses: (45 units)

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

MATH 22 Discrete Mathematics (5 units)

MATH 2A Differential Equations (5 units)

MATH 2B Linear Algebra (5 units)

and any two courses selected from:

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)

MUSIC: GENERAL

AA Degree

Units required for major: 51-57

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)

Support Courses: (12 units)†

Composition Emphasis (12 units)

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

MUS 56A Songwriting & Composing with Digital Notation (4 units)

MUS 66A Electronic Music & Media: Composing with ProTools (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-R 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, Career Certificate, Skills Certificate

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

Associate Degree Requirements*

Core Courses: (36 units)

MUS 50A Music Business (4 units)

MUS 64A Musical Styles & Analysis (4 units)

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

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 ProTools® (4 units)

or MUS 80 Recording Arts I: Sound Reinforcement (4 units)

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

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

Support Courses: (12 units)

Music

MUS 64A Jazz & Swing (4 units)

MUS 64B Funk, Fusion & Hip Hop (4 units)

MUS 64C Salsa & Latin Jazz (4 units)

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

MUS 66C Electronic Music & Media: Composing with ProTools®, Reason® & Live® (4 units)

MUS 82A Recording Arts III: Mixing & Mastering (4 units)

MUS 82B Recording Arts III: ProTools 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 (4 units)

or RAD 90C News & Information Production (4 units)

or RAD 90D News & Information Production (4 units)

RAD 92A Radio Programming & Production (4 units)

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

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

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

Video Arts

VART 1 Introduction to Film Studies (4 units)

VART 3 American Cinema (4 units)

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

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

Career Certificate (48 units)

Same as A.A. degree, except that general education courses are not required. The following minimum proficiencies are required: ENGL 1A or ESL 26, and MATH 103/105.

Skills Certificate (36 units)

Requires only the core music technology courses.

PARAMEDIC

AS Degree, Career Certificate

Units required for major: 64, certificate: 64

Associate Degree Requirements*

Certificate information

All paramedic classes meet at the Foothill College Middlefield Campus, 4000 Middlefield Road, Suite I, Palo Alto, CA 94303.

Career Certificate Requirements (64 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)

(This course must be taken twice)

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

PERSONAL TRAINER

Career Certificate

Units required for certificate: 27

Certificate Requirements

Core Courses: (27 units)

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

PT 52 Strength Fitness (4 units)

PT 53 Personal Fitness Trainer Internship (6 units)

PT 54 Techniques of Fitness Assessment (4 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)

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, Certificate of Completion

Units required for major: 50, certificate: 50

Associate Degree Requirements*

Core 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 (1 unit)

Winter Quarter

PHT 52B Aseptic Technique & IV Preparation (4 units)
PHT 54B Dosage Calculations B (3 units)
PHT 55A Pharmacology (6 units)
PHT 56A Dispensing & Compounding A (4 units)
and PHT 60A Retail Clinical (1 unit)
or PHT 60B Retail Clinical (1 unit)
or PHT 62A Hospital Clinical (1 unit)
or PHT 62B Hospital Clinical (1 unit)

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 (1 unit)
PHT 61 Home Healthcare Supplies (3 units)
PHT 62A Hospital Clinical (1 unit)
or PHT 62B Hospital Clinical (1 unit)

PHILOSOPHY

AA Degree

Units required for major: 34

Associate Degree Requirements*

Core Courses: (18 units)

PHIL 1 Critical Thinking (5 units)
PHIL 2 Social & Political Philosophy (4 units)
PHIL 4 Introduction to Philosophy (4 units)
PHIL 8 Ethics (5 units)
PHIL 20A History of Philosophy from Socrates to St. Thomas (4 units)
PHIL 20B History of Philosophy from the Renaissance to Kant (4 units)

Support Courses: (8 units)

ANTH 2A Cultural Anthropology (4 units)
HIST 4A Western Civilization (4 units)
PHIL 7 Symbolic Logic (4 units)

PHIL 24 Comparative World Religions: East (4 units)

PHIL 25 Comparative World Religions: West (4 units)

Elective Courses: (8 units)†

HIST 4B-C History of Western Civilization (4-4 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 of Completion, Career Certificate, Skills Certificate

Units required for major: 37-39, certificate: 11-39

Associate Degree Requirements*

Core Courses: (21-22 units)

PHOT 1 Beginning Photography (3 units)
or PHOT 5 Introduction to Photographic Expression (4 units)
PHOT 10 History of Photography (4 units)
PHOT 65A Introduction to Digital Imaging (4 units)
ART 5A Basic Two-Dimensional Design (3 units)

Concurrent with

ART 5AX Design Critique Seminar (1 unit)
PHOT 57A Photographic Portfolio Development (3 units)
PHOT 57B Professional Practices in Photography (3 units)
and select Option #1 or Option #2
Option 1 Traditional Photography (9 units)
PHOT 2 Intermediate Photography (3 units)
PHOT 50 Advanced Photography (3 units)
PHOT 70 Introduction to Color Photography (3 units)
or PHOT 53 Introduction to Color Slides

and 7-8 units of elective courses listed below to total at least 38 units.

Option 2 Digital Imaging (11 units)

PHOT 65B Intermediate Digital Imaging (4 units)
PHOT 65C Advanced Digital Imaging (4 units)
PHOT 71 The Photographic Book (3 units)

and 5-6 units of elective courses listed below to total at least 38 units.

Elective Courses: (5-8 units)

ART 6 Collage & Composition (3 units)
ART 20A Color (3 units)
PHOT 1 Beginning Photography (3 units)
PHOT 1LX General Photography Production Laboratory (1 unit)
PHOT 2 Intermediate Photography (3 units)
PHOT 2LX Intermediate Photography Production Laboratory (1 unit)
PHOT 5 Introduction to Photographic Expression (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.

PHOT 8 Photography of a Multicultural America (4 units)
 PHOT 10 History of Photography (4 units)
 PHOT 11 Contemporary Issues in Photography (4 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 57A Photographic Portfolio Development (3 units)
 PHOT 57B Professional Practices in Photography (3 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 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)
†Maximum of 3 units of laboratory may be used toward an A.A. degree or certificate.

Career Certificate (38 units)

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

Certificate of Completion: Traditional Photography (27 units)

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)
 or PHOT 53 Introduction to Color Slides (3 units)
 ART 5A Basic Two-Dimensional Design (3 units)
 concurrent with ART 5AX Design Critique Seminar (1 unit)

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

Certificate of Completion: Digital Imaging (29-30 units)
 PHOT 1 Beginning Photography (3 units)
 or 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)
 ART 5A Basic Two-Dimensional Design (3 units)
 concurrent with ART 5AX Design Critique Seminar (1 unit)
Skills Certificate: Photographic Lab Technician (11 units)†
 PHOT 1 Beginning Photography (3 units)
 PHOT 2 Intermediate Photography (3 units)
 PHOT 70 Introduction to Color Photography (3 units)
 OR PHOT 53 Introduction to Color Slides (3 units)
 PHOT 1LX General Photography Production Laboratory (2 units)
 or PHOT 150 Photography Production Laboratory (2 units)
 and/or PHOT 180 Photographic Practices or equivalent (2 units)
†Plus 50 hours of work experience verified by employer or volunteer supervisor.
Skills Certificate: Photo Criticism (12 units)
 PHOT 5 Introduction to Photographic Expression (4 units)
 PHOT 10 History of Photography (4 units)
 and PHOT 8 Photography of a Multicultural America (4 units)
 or PHOT 11 Contemporary Issues in Photography (4 units)

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

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
 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)

PHYSICS

AS Degree

Units required for major: 55

Associate Degree Requirements*

Core Courses: (55 units)

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

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

MATH 2A Differential Equations (5 units)

MATH 2B Linear Algebra (5 units)

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

PC 190Z Directed Studies in Primary Care Medicine (2 units)

PC 80P Family Medicine Clinical (5 units)

Students attend classes at Stanford Monday through Thursday. Fridays are spent in preceptorships. Each week a different system is highlighted with lectures that focus on common clinical problems.

Winter Quarter

PC 81 Family Medicine Didactic (8 units)

PC 81P Family Medicine Clinical (8 units)

Students are in preceptorships for 12 days per month and attend classes one week/month. Students learn the diagnosis and management of common problems covered in lectures.

Spring Quarter

PC 82 Family Medicine Didactic (8 units)

PC 82P Family Medicine Clinical (9 units)

Students continue to learn about management of acute and chronic primary health care problems.

Summer Session

PC 83 Family Medicine Didactic (6 units)

PC 83P Family Medicine Clinical (9 units)

Students learn to recognize and initiate treatment for life-threatening emergencies, and to participate in the care of hospitalized and surgical patients.

Fall Quarter (5th Quarter)

PC 84 Family Medicine Didactic (8 units)

PC 84P Family Medicine Clinical (9 units)

This quarter is an integration of medical conditions presented in previous quarters with a continued emphasis on family medicine.

Courses offered only by special arrangement.

PC 85-X-Y Special Clinical Projects (4-5-6 units)

PC 86-X-Y Special Didactic Projects (4-5-6 units)

PSYCHOLOGY

AA Degree

Units required for major: 33

Associate Degree Requirements*

Core Courses: (16 units)

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)†

ANTH 2A Cultural Anthropology (4 units)

Biol 10 General Biology (5 units)

or BIOL14 Human Biology (5 units)

HIST 4C History of Western Civilization (4 units)

or HIST 9 History of Contemporary Europe (4 units)

PSYC 4 Introduction to Psychobiology (4 units)

PRIMARY CARE ASSOCIATE PROGRAM

AS Degree, Certificate of Proficiency

Units required for major: 86, certificate: 86

Associate Degree Requirements*

Core Courses: (84 units)

Curriculum

The program is 16 months in length, presented in five quarters (with a possibility of extending into a sixth quarter) and leads to a certificate of proficiency. All courses must be taken in sequence.

Fall Quarter

PC 80 Family Medicine Didactic (14 units)

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

PSYC 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)
†*Students may also use courses listed as core courses for support courses.*

RADIATION THERAPY TECHNOLOGY

AS Degree

Units required for major: 103

Associate Degree Requirements*

Core Courses: (103 units)

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 (may be taken in any quarter) (3 units)

Winter Quarter

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

RTT 59B Radiation Oncology & Pathology (3 units)

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

BIOL 40B Functional Anatomy & Physiology (4 units)

Spring Quarter

RTT 61A Radiation Therapy Physics (3 units)

RTT 72A Dosimetry I (3 units)

RTT 71C Clinical Practicum (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)

RADIO BROADCASTING

AA Degree, Career Certificate, Skills Certificate

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

Associate Degree Requirements*

Core Courses: (22 units)

RAD 80 Fundamentals of Radio Operations (3 units)

RAD 81 History of Radio 1920 to 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)

All 15 units must come from one emphasis.

Broadcast Performance

MUS 1 Introduction to Music (4 units)

MUS 7-D-E Contemporary Musical Styles (4-4-4 units)

MUS 8 Music of Multicultural America (4 units)

MUS 80 Recording Arts I: Sound Reinforcement (4 units)

COMM 1A Public Speaking (4.5 units)

COMM 24 Readers' Theatre (4.5 units)

COMM 30 Oral Interpretation (4.5 units)

COMM 46 Voice & Diction (4 units)

Broadcast Journalism

CIS (one 4-unit CIS course) (4 units)

ENGL 4 Journalism (4 units)

COMM 1A Public Speaking (4.5 units)

COMM 46 Voice & Diction (4 units)

COMM 55 Professional & Career Communication (4 units)

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

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)

COMM 1A Public Speaking (4.5 units)

COMM 55 Professional & Career Communication (4.5 units)

Career Certificate

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

Skills Certificate

Granted after completion of a 15 units from the support courses in one emphasis.

RADIOLOGIC TECHNOLOGY

AS Degree

Units required for major: 107.5

Associate Degree Requirements*

Core Courses: (107.5 units)

First Year

Summer Session

RT 50 Orientation to Radiation Science Technology (2 units)

RT 53 Orientation to Radiologic Technology (1 unit)

Fall Quarter

RT 54A Basic Patient Care for Imaging Technology (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 54B Law & Ethics in Medical Imaging (2 units)

RT 51B Fundamentals of Radiologic Technology (3 units)

RT 52B Principles of Radiologic Technology (3 units)

RT 53B Applied Radiologic Technology (1.5 units)

RT 53BL Applied Radiologic Technology (1 unit)

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 52D Principles of Radiologic Technology (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 72 Venipuncture (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)

REAL ESTATE

AA Degree, Career Certificate

Units required for major: 32, certificate: 12-32

Associate Degree Requirements*

Core Courses: (32 units)

BUSI 18 Business Law (4 units)

R E 50 Real Estate Principles (4 units)

R E 51 Real Estate Practices (4 units)

R E 52A Legal Aspects of Real Estate I (4 units)

R E 53 Real Estate Finance (4 units)

R E 54 Real Estate Economics (4 units)

R E 56A Real Estate Appraisal I (4 units)

R E 59 Property Management (4 units)

Certificate Information

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

Real Estate Broker Career Certificate (32 units)

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

Real Estate Salesperson Career Certificate (12 units)

Meets the California Department of Real Estate course requirements for a salesperson license.

Required Courses (8 units)

R E 50 Real Estate Principles (4 units)

R E 51 Real Estate Practices (4 units)

Support Courses (4 units)

R E 52A Legal Aspects of Real Estate I (4 units)

R E 53 Real Estate Finance (4 units)

R E 54 Real Estate Economics (4 units)

R E 56A Real Estate Appraisal I (4 units)

R E 59 Property Management (4 units)

BUSI 18 Business Law (4 units)

RESPIRATORY THERAPY

AS Degree

Units required for major: 103

Associate Degree Requirements*

Core Courses: (103 units)

First Year

Fall Quarter

RSPT 50A Respiratory Therapy Procedures (4.5 units)

RSPT 51A Introduction to Respiratory Anatomy & Physiology (2 units)

RSPT 52 Applied Science for Respiratory Therapy (3 units)

RSPT 54 Orientation to Respiratory Care (1.5 units)

RSPT 55A Directed Studies (.5 unit)

*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.

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 (offered each quarter)

RSPT 190-X-Y-Z Directed Studies (.5-1.5-2 units)

SOC 11 Introduction to Social Welfare (5 units)

SOC 15 Law & Society (4 units)

SOC 19 Alcohol & Drug Abuse (4 units)

SOC 20 Major Social Problems (4 units)

SOC 23 Race & Ethnic Relations (4 units)

SOC 30 Social Psychology (4 units)

SOC 40 Aspects of Marriage & Family (4 units)

Support Courses: (13 units)

ANTH 2A Cultural Anthropology (4 units)

ECON 1A Principles of 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 (4 units)
or HIST 4C History of Western Civilization (4 units)

MATH 10 Elementary Statistics (5 units)

PHIL 1 Critical Thinking (5 units)

POLI 7 American Government from a Black Perspective (5 units)

PSYC 22 Psychology of Prejudice (4 units)

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

WMN 21 Psychology of Women: Sex & Gender Differences (4 units)

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

Certificate of Achievement in Sociology (13 units)

Required Courses (5 units)

SOC 1 Introduction to Sociology (5 units)

Core Courses (4 units)

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)

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 (4 units)
or HIST 4C History of Western Civilization (4 units)

MATH 10 Elementary Statistics (5 units)

PHIL 1 Critical Thinking (5 units)

POLI 7 American Government from a Black Perspective (5 units)

PSYC 22 Psychology of Prejudice (4 units)

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

WMN 21 Psychology of Women: Sex & Gender Differences (4 units)

Certificate of Proficiency in Sociology: Social Welfare (26 units)

Required Courses (9 units)

SOC 11 Introduction to Social Welfare (5 units)

SOCIOLOGY

AA Degree, Certificate of Achievement, Certificate of Proficiency

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

Associate Degree Requirements*

Core Courses: (12 units)

SOC 10 Introduction to Social Research (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.

SOC 19 Alcohol & Drug Abuse (4 units)
Core Courses (12 units)
SOC 1 Introduction to Sociology (5 units)
SOC 15 Law & Society (4 units)
SOC 20 Major Social Problems (4 units)
SOC 23 Race & Ethnic Relations (4 units)
SOC 40 Aspects of Marriage & Family (4 units)
Support Courses (5 units)
BUSI 18 Business Law (4 units)
HLTH 21 Health Education (3 units)
PSYC 22 Psychology of Prejudice (4 units)
SOC 30 Social Psychology (4 units)
SOSC 36 Special Projects (1-4 units)
COMM 12 Intercultural Communication (4 units)
WMN 5 Introduction to Women's Studies (4 units)

SPANISH

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

Units required for major: 36, certificate: 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-B 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: (5 units)

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 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-B 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-B Intermediate Conversation I-II (3-3 units)

SPECIAL EDUCATION

AA Degree, Career Certificate

Units required for major: 35, certificate: 27

Associate Degree Requirements*

Core Courses: (27 units)

SPED 57 Working with Special Populations (3 units)
SPED 61 Introduction to Disabilities (4 units)
SPED 62 Psychological Aspects of Disability (4 units)
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)

COMM 1A Public Speaking (4.5 units)

COMM 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)

SPED 67Y Adaptive Fitness Directed Study (3 units)

SPED 70 Introduction to Aqua Fitness Principles (3 units)

SPED 71 Special Topics in the Field of Fitness Therapy (3 units)

Special Education Paraprofessional Career Certificate (27 units)

SPED 57 Working with Special Populations (3 units)

SPED 61 Introduction to Disabilities (4 units)

SPED 62 Psychological Aspects of Disability (4 units)

SPED 63 Learning Disabilities (4 units)

SPED 64 Disability & the Law (4 units)

SPED 66 Disability & Technology Access (4 units)

SPED 69 Special Education Strategies & Practicum (4 units)

THEATRE TECHNOLOGY

AA Degree, Career Certificate, Skills Certificate

Units required for major: 43, 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)

*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 49 Rehearsal & Performance (3 units)
 GID 74 Introduction to Digital Art & 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 (5.5 units)
 or DRAM 49Y Rehearsal & Performance (5.5 units)
 DRAM 71 Fundamentals of Stage Management (4 units)
 DRAM 72 Drafting for the Theatre, Film & Television (4 units)
 CWE 51 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 Lighting Technology (1-8 units)
 or CWE 52 Internship in Lighting 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 Stage Design (1-8 units)
 or CWE 52 Internship in Stage Design

Career Certificate (43 units)
 Same as A.A. degree, except general education courses are not required.

Skills Certificates (28 units)
 Earned with the completion of DRAM 21A and 24 units from courses listed in one area of emphasis.

TRAVEL CAREERS

AA Degree, Certificate of Proficiency, Career Certificate

Units required for major: 45, certificate: 8-45

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)

Support Courses: (12 units)

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)

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

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

Certificate of Proficiency (45 units)

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.

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)

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)

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)

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)

Leisure Travel Advanced Career Certificate (19 units)
 Awarded after completion of the core courses, with the addition of the following:
 TC 56 Selling Foreign Independent Tours (4 units)
 TC 58 Selling Group Travel (4 units)
 TC 59 Travel Sales Techniques (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, Certificate of Completion

Units required for major: 97, certificate: 13

Associate Degree Requirements*

Core Courses: (97 units)

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

Online Veterinary Assisting Certificate of Completion (13 units)

VT 52A-B Veterinary Assisting I-II (5-5 units)
 VT 88A-B Clinical Preceptorship I-II (1.5-1.5 units)

VIDEO ARTS

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

Units required for major: 49, certificate: 12-49

Associate Degree Requirements*

Core Courses: (33 units)

VART 1 Introduction to Film Studies (4 units)

VART 15 Video & Streaming Media Techniques (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.

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 Digital Video Production I (4 units)

VART 21 Digital Video Production II (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 Principals 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-B Recording Arts II (4-4 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)

Career Certificate in Video Arts (49 units)

Same as A.A. degree without general education requirements

Certificate of Completion (12 units)

Any 3 courses from:

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)

Digital Videography Skill Certificate (12 units)

VART 1 Introduction to Film Studies (4 units)

VART 20 Digital Video Production I (4 units)

VART 21 Digital Video Production II (4 units)

Digital Video Editing Skill Certificate (12 units)

VART 84 Digital Video Editing I (4 units)

VART 85 Digital Video Editing II (4 units)

VART 86 Introduction to Digital Sound, Video & Animation (4 units)

Sound Arts Skill Certificate (12 units)

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 Skill Certificate (12 units)

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 Skill Certificate (12 units)

GID 71 Storyboarding (4 units)

GID 84 Motion Graphics (4 units)

GID 72 Cartooning (4 units)

or VART 89 Introduction to the MAYA 3-D System (4 units)

WOMEN'S STUDIES

AA Degree

Units required for major: 32.5

Associate Degree Requirements*

Core Courses: (16.5 units)

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

WMN 11 Women in Global Perspective (4 units)

WMN 21 Psychology of Women: Sex & Gender Differences (4 units)

COMM 10 Gender & Communication (4.5 units)

Support Courses: (16 units)

PSYC 14 Childhood & Adolescence (4 units)

PSYC 22 Psychology of Prejudice (4 units)

SOC 30 Social Psychology (4 units)

SOC 40 Aspects of Marriage & Family (4 units)

SOSC 20 Cross-Cultural Perspectives for a Multicultural Society (4 units)

ENGL 21 Images of Women in Literature (4 units)
or ENGL 22 Women Writers (4 units)

WMN 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. 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
ANTH 2	ANTH 1
ANTH 4	ANTH 2A
ANTH 6	ANTH 8
ART 2	ART 2A+2B
ART 4	ART 2B+2C
ART 6	ART 45A+45AX
ART 8	ART 4A+4B
ART 10	ART 69
ART 14	ART 5A
ART 16	ART 5B
ART 18	PHOT 1
ART 20	ART 69
ART SEQ A	ART 2A+2B+2C
BIOL 2	BIOL 1A
BIOL 14	BIOL 41
BIOL SEQ A	BIOL 1A+1B+1C
BIOL SEQ B	BIOL 40A+40B+40C
BUS 2	ACTG 1A+1B
BUS 4	ACTG 1C
BUS 6	CIS 60

For the most up-to-date information,
consult a counselor or access www.csus.edu.

CAN COURSE	FOOTHILL COURSE
BUS 8	BUSI 18
BUS SEQ A	ACCT 1A+1B+1C
CHEM 1	CHEM 1A
CHEM 2	CHEM 1A+1B
CHEM 3	CHEM 1B
CHEM 4	CHEM 1B+1C
CHEM 5	CHEM 1C
CHEM 6	CHEM 30A
CHEM 8	CHEM 30B
CHEM SEQ A	CHEM 1A+1B+1C
CHEM SEQ B	CHEM 30A & 30B
CHIN SEQ A	CHIN 1+2+3
CHIN SEQ B	CHIN 4+5+6
CSCI 2	CIS 2
CSCI 6	CIS 12A
CSCI 16	CIS 25A
CSCI 22	CIS 15A OR 27A
CSCI 26	CIS 18 OR MATH 22
DRAM 6	DRAM 46
DRAM 8	DRAM 20A+20B

For the most up-to-date information,
consult a counselor or access www.csus.edu.

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,
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CAN COURSE	FOOTHILL COURSE	CAN COURSE	FOOTHILL COURSE
MATH 20	MATH 1B+1C	PHYS SEQ B	PHYS 4A+4B+4C
MATH 21	MATH 1C	PHYS SEQ C	PHYS 4A+4B+4C+4D
MATH 22	MATH 1C+1D	PSY 2	PSYC 1
MATH 23	MATH 1D	SOC 2	SOC 1
MATH 24	MATH 2A	SOC 4	SOC 20
MATH 26	MATH 2B	SPAN 1	SPAN 1
MATH 34	MATH 12	SPAN 2	SPAN 1+2
MATH SEQ B	MATH 1A+1B+1C	SPAN 3	SPAN 2
MATH SEQ C	MATH 1A+1B+1C+1D	SPAN 4	SPAN 2+3
PHIL 2	PHIL 4	SPAN 5	SPAN 3
PHIL 4	PHIL 8	SPAN 7	SPAN 4
PHIL 6	PHIL 1	SPAN 9	SPAN 5
PHYS 2	PHYS 2A+2B	SPAN 11	SPAN 6
PHYS 4	PHYS 2B+2C	SPAN SEQ A	SPAN 1+2+3
PHYS 8	PHYS 4A	SPAN SEQ B	SPAN 4+5+6
PHYS 12	PHYS 4B	SPCH 4	SPCH 1A
PHYS 14	PHYS 4C	SPCH 6	SPCH 1B
PHYS 16	PHYS 4D	SPCH 10	SPCH 4
PHYS SEQ A	PHYS 2A+2B+2C	STAT 2	MATH 10

For the most up-to-date information,
consult a counselor or access www.csus.edu.

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Course Listings

ACADEMIC SKILLS

Language Arts Division

(650) 949-7452
www.foothill.edu/la/

ACAD 102 PUNCTUATION IMPROVEMENT

Advisory: Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory.

Computerized or text-based instruction in punctuation skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include analysis and application of punctuation rules, usage and grammar. Materials available at beginning, intermediate and advanced levels.

ACAD 104 SPELLING IMPROVEMENT

Advisory: Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory.

Computerized or text-based course designed to improve spelling skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include review of phonics, homonyms and analysis, and application of spelling rules. Emphasis on integrating these rules into writing. Materials available at beginning and intermediate levels.

ACAD 105 WRITING BETTER SENTENCES

Advisory: Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory.

Computerized or text-based instruction in improving sentence skills. Areas covered can include review of grammar and punctuation rules as relevant to the writing process and introduction to simple, compound, complex and embedded sentence structures. Emphasis on integrating subskills into the whole writing process. Materials available at beginning, intermediate and advanced levels.

ACAD 108 RESEARCH PAPER ASSISTANCE

Advisory: Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory.

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.

ACAD 110 GRAMMAR IMPROVEMENT

Advisory: Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory.

Computerized or text-based instruction in grammar. Students begin at their own level, based on diagnostic assessment. Areas covered can include analysis and application of structural elements, punctuation rules and sentence boundaries. Materials available at beginning, intermediate and advanced levels.

ACAD 112 VOCABULARY IMPROVEMENT

Advisory: Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory.

Computerized or text-based instruction in improving vocabulary skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include understanding of word parts, analysis of context clues, and learning of new words. Materials available at beginning, intermediate and advanced levels.

ACAD 122 LISTENING & PRONUNCIATION SKILLS FOR ESL

Advisory: Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory.

Computerized or text-based instruction in improving listening comprehension and pronunciation skills for non-native speakers of English. Materials available at beginning, intermediate and advanced levels.

ACAD 123 WORD PROCESSING & KEYBOARDING SKILLS

1 Unit

Advisory: Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory.

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.

ACCOUNTING

Business & Social Sciences Division

(650) 949-7322

www.foothill.edu/bss/

ACTG 1A FINANCIAL ACCOUNTING I

5 Units

Five hours lecture, one hour laboratory.

Introduction to accounting information system for decision making. Original entry and posting, adjusting and closing entries, development of accounting system for computers, internal controls over assets, accounting for monetary assets and inventories, and the relationship among financial statements. [CAN BUS 2 = ACTG 1A+1B, CAN BUS SEQ A = ACTG 1A+1B+1C]

ACTG 1B FINANCIAL ACCOUNTING II

5 Units

Five hours lecture, one hour laboratory.

Continuing study of accounting information system for decision making. Fixed assets and intangible assets, current liabilities, corporations, bonds, investments, statement of cash flows and financial statement analysis. [CAN BUS 2 = ACTG 1A+1B, CAN BUS SEQ A = ACTG 1A+1B+1C]

ACTG 1C MANAGERIAL ACCOUNTING

5 Units

Prerequisite: ACTG 1B.

Advisory: MATH 10 or high school algebra recommended.

Five hours lecture, one hour laboratory.

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, CAN BUS SEQ A = ACTG 1A+1B+1C]

ACTG 51A INTERMEDIATE ACCOUNTING

4 Units

Prerequisite: ACTG 1B.

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.

ACTG 51B INTERMEDIATE ACCOUNTING

4 Units

Prerequisite: ACTG 51A.

Four hours lecture.

Expanded coverage of accounting topics related to liabilities, equity, and investments. Selected topics in revenue recognition, accounting for income taxes, pensions, and leases.

ACTG 60 ACCOUNTING FOR SMALL BUSINESS

5 Units

Five hours lecture.

Pre-professional accounting course introducing the theory of double-entry bookkeeping/accounting. Emphasis on basic accounting cycle, elementary accounting principles and procedures, and financial records.

ACTG 64A COMPUTERIZED ACCOUNTING PRACTICE

2 Units

Prerequisites: ACTG 1A or equivalent experience. Not open to students with credit in CIS 64A.

Four hours lecture-laboratory.

Focus on using QuickBooks to record financial data. Reviewing the accounting cycle, processing business transactions and preparing financial statements.

ACTG 64B COMPUTERIZED ACCOUNTING PROGRAMS 2 Units	ALAP 61 RESISTIVE EXERCISE FOR THE PHYSICALLY LIMITED .5 Unit
Prerequisite: ACTG 1B or equivalent experience.	Prerequisite: Medically verified disability.
Four hours lecture-laboratory.	Any combination of ALAP 61 & 61X may be taken a maximum of six times for credit.
Practice in using an electronic spreadsheet program to organize and process financial and managerial accounting data. Includes research on the Internet.	Two hours laboratory, one and one-half hours individualized activity.
ACTG 65 PAYROLL & BUSINESS TAX ACCOUNTING 4 Units	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.
Prerequisite: ACTG 1B.	
Four hours lecture.	
Presentation of basic payroll procedures used in business today. Provides practice in recording procedures and preparation of tax returns.	
ACTG 66 COST ACCOUNTING 4 Units	ALAP 62 INDIVIDUALIZED EXERCISE FOR THE PHYSICALLY LIMITED .5 Unit
Prerequisite: ACTG 1C or equivalent experience.	Prerequisite: Medically verified disability.
Five hours lecture.	Any combination of ALAP 62 & 62X may be taken a maximum of six times for credit.
Fundamentals of activity-based costing, job-order, process cost, and standard cost accounting systems.	Two hours laboratory, one and one-half hours individualized activity.
ACTG 67 TAX ACCOUNTING 3 Units	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.
Three hours lecture.	
Advanced study of current Federal and California Income Tax Law as it relates to individuals with emphasis on practical application, tax planning and tax form preparation.	
ACTG 68A ADVANCED TAX ACCOUNTING I 4 Units	ALAP 63 POSTURAL FITNESS FOR THE PHYSICALLY LIMITED .5 Unit
Corequisite: ACTG 67 or equivalent experience, or concurrent enrollment in ACTG 67.	Prerequisite: Medically verified disability.
Four hours lecture.	Any combination of ALAP 63 & 63X may be taken a maximum of six times for credit.
Current federal income tax law as it relates to sole proprietorships and partnerships.	Two hours laboratory.
ACTG 68B ADVANCED TAX ACCOUNTING II 4 Units	Exercises for improving body mechanics for those with musculo-skeletal impairments. Body mechanics and lumbar spine stabilization.
Prerequisites: ACTG 68A.	
Four hours lecture.	
Current federal income tax law as it relates to corporations, estate, trust, and gift taxes.	
ACTG 68C ADVANCED TAX ACCOUNTING III 3 Units	ALAP 64 AEROBIC DANCE FOR THE PHYSICALLY LIMITED .5 Unit
Prerequisite: ACTG 68B.	Prerequisite: Medically verified disability.
Three hours lecture.	Any combination of ALAP 64 & 64X may be taken a maximum of six times for credit.
Current federal income tax administration and procedures and review of Enrolled Agent Exam.	Three hours laboratory.
	Aerobic dance, individually modified for those with physical limitations, designed to increase cardiovascular and muscular endurance. Combination of exercise and low-impact dance movements. Emphasis on rhythm, balance, locomotor and coordination activities, as appropriate.
ADAPTIVE LEARNING: ADAPTIVE PHYSICAL EDUCATION	ALAP 65 STRETCHING & FLEXIBILITY FOR THE PHYSICALLY DISABLED .5 Unit
Adaptive Learning Division	Prerequisite: Medically verified disability.
	Advisory: Pass/No Pass.
	Any combination of ALAP 65 & 65X may be taken a maximum of six times for credit.
	Three hours laboratory for each unit of credit.
	Individualized stretching and flexibility for the physically limited student. Emphasis on increased range of motion and flexibility.
ALAP 52 INTRODUCTION TO CONCEPTS .5 Unit	ALAP 66 FUNCTIONAL FITNESS FOR THE PHYSICALLY LIMITED .5 Unit
ALAP 52X OF PHYSICAL FITNESS FOR 1 Unit	Prerequisite: Medically verified disability.
ALAP 52Y THE DISABLED STUDENT 1.5 Units	Any combination of ALAP 66 & 66X may be taken a maximum of six times for credit.
Prerequisite: Medically verified disability.	Two hours laboratory.
Any combination of ALAP 52, 52X & 52Y may be taken a maximum of 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.
Two hours lecture-laboratory for each unit of credit.	
Designed to develop an understanding of the concept of physical fitness and its components. Learn to measure and evaluate present level of physical fitness.	
Develop understanding and skill involved in injury prevention and first aid.	
ALAP 60 GENERAL CONDITIONING FOR .5 Unit	ALAP 67 BALANCE & FUNCTIONAL MOVEMENT FOR THE PHYSICALLY LIMITED .5 Unit
ALAP 60X THE PHYSICALLY LIMITED 1 Unit	Prerequisite: Medically verified disability.
Prerequisite: Medically verified disability.	May be taken six times for credit.
Any combination of ALAP 60 & 60X may be taken a maximum of six times for credit.	Two hours laboratory.
Two hours laboratory, one and one-half hours individualized activity.	Balance training to enhance coordination, balance and neuromuscular function. Emphasis on enhancing functional movement, movement efficiency resulting in improved posture, and functional movement experiences.
Personal instruction in exercise programs to develop a comprehensive exercise program based on physician's recommendations, physical abilities and individual goals. Cardiovascular endurance, flexibility, muscular strength and endurance, balance and/or motor skills, as appropriate. Exercise program include circuit training.	

ALAP 70	ADAPTIVE AQUATICS FOR THE PHYSICALLY LIMITED	.5 Unit	ALCB 204	POST-ADVANCED LIP READING	.5 Unit			
ALAP 70X		1 Unit	ALCB 204X		1 Unit			
Prerequisite: Medically verified disability. Any combination of ALAP 70 & 70X may be taken a maximum of six times for credit.								
Two hours laboratory. Individualized swimming instruction to improve cardiovascular endurance.								
ALAP 71	AQUACIZE FOR THE PHYSICALLY LIMITED	.5 Unit	ALCB 207	MOBILITY SKILLS FOR THE VISUALLY IMPAIRED	.5 Unit			
ALAP 71X		1 Unit	ALCB 207X		1 Unit			
Prerequisite: Medically verified disability. Any combination of ALAP 71 & 71X may be taken a maximum of six times for credit.								
Two hours laboratory. 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	ALCB 207Y		2 Units			
ALAP 80X		1 Unit						
Prerequisite: Medically verified disability. Any combination of ALAP 80 & 80X may be taken a maximum of six times for credit.								
Three hours laboratory. 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.								
ALCB 201	BEGINNING LIP READING	.5 Unit	ALCB 222	JOB SEARCH SKILLS	1 Unit			
ALCB 201X		1 Unit	ALCB 222X		2 Units			
Prerequisite: Medically verified disability. Any combination of ALCB 201 & 201X may be taken a maximum of six times for credit.								
One and one-half hours lecture-laboratory. Designed for adults with acquired, congenital or progressive hearing impairment. Includes basic sounds of the English language and 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	ALCB 222Y		2.5 Units			
ALCB 202X		1 Unit	ALCB 222Z		3 Units			
Non-degree applicable credit course. Prerequisite: Medically verified disability. Any combination of ALCB 202 & 202X may be taken a maximum of six times for credit.								
One and one-half hours lecture-laboratory. Designed to meet the needs of the hearing impaired adult with acquired hearing impairment.								
ALCB 203	ADVANCED LIP READING	.5 Unit	ALCB 223	CAREER RESOURCES	.5 Unit			
ALCB 203X		1 Unit	ALCB 223X		1 Unit			
Prerequisite: Medically verified disability. ALCB 201, 202 or equivalent skills. Any combination of ALCB 203 & 203X may be taken a maximum of six times for credit.								
One and one-half hours lecture-laboratory. Designed to meet the needs of the hearing impaired adult with acquired hearing impairment.								

ADAPTIVE LEARNING: COMMUNITY BASED

Adaptive Learning Division (650) 949-7321
www.foothill.edu/al/

ALCB 201	BEGINNING LIP READING	.5 Unit	ALCB 224	EMPLOYMENT ISSUES	.5 Unit
ALCB 201X		1 Unit	ALCB 224X		1 Unit
Prerequisite: Medically verified disability. Any combination of ALCB 201 & 201X may be taken a maximum of six times for credit.					
One and one-half hours lecture-laboratory. Three hours laboratory for each unit of credit. Introduction and hands-on use of resources available to research and find employment in the Bay Area. Resources include daily job postings, fax, Internet, telephones, company leads, casual labor, videos and career library. Designed for the disabled student.					
ALCB 202	INTERMEDIATE LIP READING & MANAGING YOUR HEARING LOSS	.5 Unit	ALCB 224Y		2 Units
ALCB 202X		1 Unit	ALCB 224Z		3 Units
Non-degree applicable credit course. Prerequisite: Medically verified disability. Any combination of ALCB 202 & 202X may be taken a maximum of six times for credit.					
One and one-half hours lecture-laboratory. Three hours laboratory for each unit of credit. Exploration of work-related issues, situations and decision-making skills related to employment and job retention. Emphasis on problems facing the re-entry worker and the disabled.					
ALCB 203	ADVANCED LIP READING	.5 Unit	ALCB 229	WORK ADJUSTMENT FOR THE DISABLED	.5 Unit
ALCB 203X		1 Unit	ALCB 229X		1 Unit
Prerequisite: Medically verified disability. ALCB 201, 202 or equivalent skills. Any combination of ALCB 203 & 203X may be taken a maximum of six times for credit.					
One and one-half hours lecture-laboratory. Three hours laboratory for each unit of credit. Designed to help the student develop realistic work behavior. Focus on group interaction, sharing of attitudes, fears, hopes and expectations as they relate to work. Student participation in vocational testing to assess interest and abilities.					
ALCB 204	POST-ADVANCED LIP READING	.5 Unit	ALCB 229Y		2 Units
ALCB 204X		1 Unit	ALCB 229Z		3 Units
Prerequisite: Medically verified disability. Any combination of ALCB 204 & 204X may be taken a maximum of six times for credit.					
One and one-half hours lecture-laboratory. Three hours laboratory for each unit of credit. Designed to help the student develop realistic work behavior. Focus on group interaction, sharing of attitudes, fears, hopes and expectations as they relate to work. Student participation in vocational testing to assess interest and abilities.					

ALCB 230	INTRODUCTION TO THE COMPUTER FOR THE DISABLED	2 Units	ALCB 405	INDEPENDENT LIVING SKILLS	0 Units
	Non-degree applicable non-credit course.		ALCB 405X		0 Units
	May be taken six times for credit.		ALCB 405Y		0 Units
	Four hours lecture-laboratory, two hours terminal time.		Prerequisite: Medically verified disability.		
	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.		Any combination of ALCB 405, 405X & 405Y may be taken a maximum of six times for credit.		
ALCB 231	CAREER PLANNING &	.5 Unit	One hour laboratory.		
ALCB 231X	PERSONAL ASSESSMENT	1 Unit	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.		
ALCB 231Y		2 Units			
ALCB 231Z		3 Units			
	Non-degree applicable credit course.				
	Prerequisite: Medically verified disability.				
	Any combination of courses ALCB 231, 231X, 231Y, & 231Z may be taken for a maximum of nine units.				
	One and one-half hours laboratory.				
	Designed to help students develop a personal profile that identifies sociological, psychological and physiological perspectives for success in work, education and personal life.				
ALCB 401,X,Y	LIFE DEVELOPMENT: GOAL SETTING	0 Units	ALCB 407	SOCIAL CHANGE	0 Units
ALCB 401X		0 Units	ALCB 407X		0 Units
ALCB 401Y		0 Units	ALCB 407Y		0 Units
	Prerequisite: Medically verified disability.		Prerequisite: Medically verified disability.		
	Any combination of ALCB 401, 401X & 401Y may be taken a maximum of six times for credit.		Any combination of ALCB 407, 407X & 407Y may be taken a maximum of six times for credit.		
	One hour laboratory.		One hour laboratory.		
	Designed for the disabled student to improve knowledge of basic goal-setting skills and ability to apply goals to daily life.		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.		
ALCB 402	LEISURE MANAGEMENT	0 Units	ALCB 408	ART APPRECIATION	0 Units
ALCB 402X		0 Units	ALCB 408X		0 Units
ALCB 402Y		0 Units	ALCB 408Y		0 Units
	Prerequisite: Medically verified disability.		Prerequisite: Medically verified disability.		
	Any combination of ALCB 402, 402X & 402Y may be taken a maximum of six times for credit.		Any combination of ALCB 408, 408X & 408Y may be taken a maximum of six times for credit.		
	One hour laboratory.		One hour laboratory.		
	Designed for the disabled student to acquire information about and develop strategies for managing accessible, affordable and pleasing leisure time.		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.		
ALCB 403	CHANGING GENERATIONS	0 Units	ALCB 409	MUSIC APPRECIATION	0 Units
ALCB 403X		0 Units	ALCB 409X		0 Units
ALCB 403Y		0 Units	ALCB 409Y		0 Units
	Prerequisite: Medically verified disability.		Prerequisite: Medically verified disability.		
	Any combination of ALCB 403, 403X & 403Y may be taken a maximum of six times for credit.		Any combination of ALCB 409, 409X & 409Y may be taken a maximum of six times for credit.		
	One hour laboratory.		One hour laboratory.		
	Designed to offer an opportunity for young and old to share a relationship.		Designed for the disabled student to acquire appreciation of composers and their work. Emphasis on identification and recall of auditory input.		
ALCB 404	CONSUMER TOPICS	0 Units	ALCB 411	HEALTH ISSUES	0 Units
ALCB 404X		0 Units	ALCB 411X		0 Units
ALCB 404Y		0 Units	ALCB 411Y		0 Units
	Prerequisite: Medically verified disability.		Prerequisite: Medically verified disability.		
	Any combination of ALCB 404, 404X & 404Y may be taken a maximum of six times for credit.		Any combination of ALCB 411, 411X & 411Y may be taken a maximum of six times for credit.		
	One hour laboratory.		One hour laboratory.		
	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.		Designed for the disabled to acquire information and develop strategies for managing the physical, social and psychological effects of illness.		

ALCB 413	RELAXATION TECHNIQUES	0 Units	ALCB 451	DRAWING & PAINTING	0 Units
ALCB 413X		0 Units	ALCB 451X		0 Units
ALCB 413Y		0 Units	ALCB 451Y		0 Units
Prerequisite: Medically verified disability.			ALCB 451Z		0 Units
Any combination of ALCB 413, 413X & 413Y may be taken a maximum of six times for credit.			Prerequisite: Medically verified disability.		
One hour laboratory.			Any combination of ALCB 451, 451X, 451Y & 451Z may be taken a maximum of six times for credit.		
Designed for the disabled student to acquire information about and develop techniques for achieving relaxation by releasing mental and physical tension.			One hour laboratory.		
ALCB 414	STRESS MANAGEMENT	0 Units	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.		
ALCB 414X		0 Units			
ALCB 414Y		0 Units			
Prerequisite: Medically verified disability.			ALCB 453	CLAY ART	0 Units
Any combination of ALCB 414, 414X & 414Y may be taken a maximum of six times for credit.			ALCB 453X		0 Units
One hour laboratory.			ALCB 453Y		0 Units
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.			ALCB 453Z		0 Units
ALCB 415	HEALTHY AGING	0 Units	Prerequisite: Medically verified disability.		
Non-degree applicable credit course.			Any combination of ALCB 453, 453X, 453Y & 453Z may be taken a maximum of six times for credit.		
Prerequisite: Medically verified disability.			One hour laboratory.		
May be taken six times for credit.			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.		
One hour laboratory.					
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.			ALCB 454	MUSIC & SONG	0 Units
ALCB 421	AROUND THE WORLD IN TRAVEL STUDY	0 Units	ALCB 454X		0 Units
ALCB 421X		0 Units	ALCB 454Y		0 Units
ALCB 421Y		0 Units	Prerequisite: Medically verified disability.		
Prerequisite: Medically verified disability.			Any combination of ALCB 454, 454X & 454Y may be taken a maximum of six times for credit.		
Any combination of ALCB 421, 421X & 421Y may be taken a maximum of six times for credit.			One hour laboratory.		
One hour laboratory.			Designed for the disabled student to increase self-expression and social interaction, and improve self-esteem through singing and the discussion of songs.		
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.					
ALCB 431	ANALYSIS OF CURRENT EVENTS	0 Units	ALCB 455	MUSIC & MOVEMENT	0 Units
ALCB 431X		0 Units	ALCB 455X		0 Units
ALCB 431Y		0 Units	ALCB 455Y		0 Units
ALCB 431Z		0 Units	ALCB 455Z		0 Units
Prerequisite: Medically verified disability.			Prerequisite: Medically verified disability.		
Any combination of ALCB 431, 431X, 431Y & 431Z may be taken a maximum of six times for credit.			Any combination of ALCB 455, 455X, 455Y & 455Z may be taken a maximum of six times for credit.		
One hour laboratory.			One hour laboratory.		
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.			Designed for the disabled student to improve flexibility and mobility through exercise performed to music.		
ALCB 432	USE OF COMMUNITY RESOURCES	0 Units	ALCB 456	CRAFTS	0 Units
ALCB 432X		0 Units	ALCB 456X		0 Units
ALCB 432Y		0 Units	ALCB 456Y		0 Units
Prerequisite: Medically verified disability.			ALCB 456Z		0 Units
Any combination of ALCB 432, 432X & 432Y may be taken a maximum of six times for credit.			Prerequisite: Medically verified disability.		
One hour laboratory.			Any combination of ALCB 456, 456X, 456Y & 456Z may be taken a maximum of six times for credit.		
Overview of community resources with emphasis on skills for living independently.			One hour laboratory.		
ALCB 433	SOCIAL COMMUNICATION	0 Units	Designed for the disabled student to improve expressive capability, manipulatory skills and eye-hand coordination, increase self-esteem and increase social interaction through the use of seasonal, leather, wood, fabric, yarn and paper materials to create crafts projects in a group setting.		
ALCB 433X		0 Units			
ALCB 433Y		0 Units			
ALCB 433Z		0 Units			
Prerequisite: Medically verified disability.			ALCB 462	VERBAL EXPRESSION	0 Units
Any combination of ALCB 433, 433X, 433Y & 433Z may be taken a maximum of six times for credit.			ALCB 462X		0 Units
One hour laboratory.			ALCB 462Y		0 Units
Designed for the disabled student to enhance self-esteem, communication and socialization skills in order to increase confidence in personal and social interactions.			ALCB 462Z		0 Units
Prerequisite: Medically verified disability.			Prerequisite: Medically verified disability.		
Any combination of ALCB 433, 433X, 433Y & 433Z may be taken a maximum of six times for credit.			Any combination of ALCB 462, 462X, 462Y & 462Z may be taken a maximum of six times for credit.		
One hour laboratory.			One hour laboratory.		
Designed for the disabled student to teach techniques in verbal communication specifically to improve family, social and work-related situations.					

ALCB 463	CREATIVE WRITING	0 Units	ALCA 202	COMPUTER KEYBOARDING SKILLS FOR THE DISABLED	.5 Unit	
ALCB 463X		0 Units				
ALCB 463Y		0 Units				
Prerequisite: Medically verified disability.						
Any combination of ALCB 463, 463X & 463Y may be taken a maximum of six times for credit.						
One hour laboratory.						
Designed for the disabled student to present written autobiographical, fictional and non-fictional experiences which are shared orally for both appreciation and constructive input to enhance self-esteem, memory retention and writing ability.						
ALCB 464	POETRY & LITERATURE	0 Units	ALCA 203	COMPUTER ACCESS PROJECTS	2 Units	
ALCB 464X		0 Units	ALCA 203X	FOR THE DISABLED	3 Units	
ALCB 464Y		0 Units	ALCA 203Y		4 Units	
Prerequisite: Medically verified disability.						
Any combination of ALCB 464, 464X & 464Y may be taken a maximum of six times for credit.						
One hour laboratory.						
Designed for the disabled student to acquire knowledge and appreciation in poetry and literature with emphasis of its various forms and recall of auditory input.						
ALCB 465	CREATIVE SELF-EXPRESSION	0 Units	ALLD 201	DIAGNOSING LEARNING DISABILITIES	2 Units	
ALCB 465X		0 Units	ALLD 201X		3 Units	
ALCB 465Y		0 Units	Advisory: Pass/No Pass.			
ALCB 465Z		0 Units	Any combination of ALCA 203, 203X & 203Y may be taken a maximum of six times for credit.			
Prerequisite: Medically verified disability.						
Any combination of ALCB 465, 465X, 465Y & 465Z may be taken a maximum of six times for credit.						
One hour laboratory.						
Designed for the disabled student to provide directed experiences in self-expression. Emphasis on various activities designed to enhance physical and cognitive creative expression and enable the student to develop independent creative activities through adapted drama, music, art and writing.						
ALCB 481	EXERCISE FOR THE OLDER DISABLED ADULT	0 Units	ALLD 202	SPECIAL PROJECTS FOR LEARNING DISABLED	1 Unit	
ALCB 481X		0 Units	ALLD 202X		2 Units	
ALCB 481Y		0 Units	Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.			
ALCB 481Z		0 Units	Advisory: Pass/No Pass.			
Prerequisite: Medically verified disability.						
Any combination of ALCB 481, 481X, 481Y & 481Z may be taken a maximum of six times for credit.						
One hour laboratory.						
Designed for the disabled student to improve flexibility, range of movement, muscular strength and endurance.						
ADAPTIVE LEARNING: COMPUTER ACCESS						
Adaptive Learning Division			(650) 949-7321 www.foothill.edu/al/			
ALCA 201	COMPUTER ACCESS EVALUATION	1 Unit	ALLD 203	COMPENSATORY TECHNIQUES	1 Unit	
Formerly: ALCA 101						
Non-degree applicable credit course.						
Prerequisite: Medically verified disability or access limitation.						
Advisory: Pass/No Pass.						
May be taken six times for credit.						
Three hours laboratory.						
Evaluation with emphasis on determining the efficacy and appropriateness of accommodations required for parity with peers in regular college curricula.						

ALLD 204	TECHNOLOGY-BASED WRITING FOR STUDENTS WITH LEARNING DIFFERENCES	1 Unit	ALLD 211	ENHANCING COLLEGE SUCCESS	2 Units
ALLD 204X		2 Units		Non-degree applicable credit course.	
	Non-degree applicable credit course.			May be taken two times for credit.	
	Advisory: Computer skills including basic keyboarding or consent of instructor.			Two hours lecture, two hours of individualized assigned activities.	
	Pass/No Pass.			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.	
	Any combination of ALLD 204 & 204X may be taken a maximum of two times for credit.				
	Two hours lecture-laboratory, one hour terminal time.				
	Using technology and structured writing software to plan, organize, create and edit writing projects.				
ALLD 205	READING REMEDIATION	1 Unit	ALLD 212	STRATEGIC LEARNING FOR COLLEGE SUCCESS	2 Units
ALLD 205X		2 Units		Non-degree applicable credit course.	
	Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.			May be taken two times for credit.	
	Advisory: Pass/No Pass.			Two hours lecture, two hours of individualized assigned activities.	
	Any combination of ALLD 205 & 205X may be taken a maximum of six times for credit.			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.	
	Three hours laboratory per unit of credit.				
	A systematic and progressive remedial reading class with an emphasis on reading comprehension. Designed for ALLD students.				
ALLD 206	PARAGRAPH REMEDIATION	1 Unit	ALLD 401	STUDENT SUCCESS STRATEGIES FOR THE DISABLED STUDENT	0 Units
ALLD 206X		2 Units	ALLD 401X		0 Units
	Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.		ALLD 401Y		0 Units
	Advisory: Pass/No Pass.		ALLD 401Z		0 Units
	Any combination of ALLD 206 & 206X may be taken a maximum of six times for credit.				
	Three hours laboratory per unit of credit.			Prerequisite: Medically verified disability.	
	A systematic and progressive paragraph development class with an emphasis on writing concisely with correct grammar. Designed for ALLD students.			Any combination of ALLD 401, 401X, 401Y & 401Z may be taken a maximum of six times for credit.	
ALLD 207	BASIC MATH REMEDIATION	1 Unit		One hour laboratory.	
ALLD 207X		2 Units		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.	
	Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.				
	Advisory: Pass/No Pass.				
	Any combination of ALLD 207 & 207X may be taken a maximum of six times for credit.				
	Three hours laboratory for each unit of credit.				
	A systematic and remedial math class with an emphasis on basic math skills. Designed for ALLD students.				
ALLD 208	MAINSTREAMING FOR SUCCESS	1 Unit	ADAPTIVE LEARNING: POST-STROKE		
ALLD 208X		2 Units			
	Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.		Adaptive Learning Division	(650) 949-6960	
	Advisory: Pass/No Pass.			www.foothill.edu/al/	
	Any combination of ALLD 208 & 208X may be taken a maximum of six times for credit.				
	Three hours laboratory for one unit of credit.				
	Identification and resolution of problems that a disabled individual deals with when mainstreaming. Designed for ALLD students.				
ALLD 209	SKILL BUILDING FOR THE DISABLED	1 Unit	ALPS 200	ORIENTATION FOR THE DISABLED	.5 Unit
ALLD 209X		2 Units	ALPS 200X		1 Unit
	Prerequisite: ALLD 112 and certification for admission to Adaptive Learning Division Learning Disability Program.				
	Advisory: Pass/No Pass.			Prerequisite: Medically verified disability.	
	Any combination of ALLD 209 & 209X may be taken a maximum of six times for credit.			Advisory: Pass/No Pass.	
	Three hours laboratory for each unit of credit.			Any combination of ALPS 200 & 200X may be taken a maximum of two times for credit.	
	Designed for ALLD students with perceptual problems who need to learn compensation strategies to achieve academic success.			One hour lecture-laboratory for each half unit of credit.	
				Orientation of the student to the program. Discussion of disability and related issues, collection of student data, goal setting.	
ALPS 201	ASSESSMENT FOR THE AQUIRED	.5 Unit	ALPS 201	ASSESSMENT FOR THE AQUIRED	.5 Unit
ALPS 201X	BRAIN INJURED STUDENT	1 Unit	ALPS 201X	BRAIN INJURED STUDENT	1 Unit
	Prerequisite: Medically verified disability.				
	Advisory: Pass/No Pass.				
	Co-requisite: Completion or concurrent enrollment in ALPS 200.				
	Any combination of ALPS 201 & 201X may be taken a maximum of six times for credit.				
	One and one-half hours laboratory for each half unit of credit.				
	In-depth assessment of one or more of the following areas: communication, cognition, psychosocial and academic awareness skills; living skills relating to self-care and home management skills; psychomotor function.				

ALPS 202	LANGUAGE ASSESSMENT FOR THE DISABLED	.5 Unit	ALPS 209	FUNCTIONAL COMMUNICATION SKILLS FOR THE DISABLED	.5 Unit
Prerequisite:	Medically verified disability.		ALPS 209X		1 Unit
Advisory:	Pass/No Pass.		ALPS 209Y		3 Units
May be taken six times for credit.			Prerequisite:	Medically verified disability. Completion of ALPS 205.	
One-half hour lecture.			Advisory:	Pass/No Pass.	
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.			Any combination of ALPS 209, 209X & 209Y may be taken a maximum of six times for credit.		
ALPS 203	LIVING SKILLS ASSESSMENT FOR THE DISABLED	.5 Unit	ALPS 210	FUNCTIONAL SKILLS OF DAILY LIVING FOR THE DISABLED	.5 Unit
Prerequisite:	Medically verified disability.		ALPS 210X		1 Unit
Advisory:	Pass/No Pass.		ALPS 210Y		3 Units
May be taken six times for credit.			Prerequisite:	Medically verified disability. Completion of ALPS 206.	
One and one-half hours laboratory.			Advisory:	Pass/No Pass.	
In-depth assessment of living skills to assist in placement and activities in other courses.			Any combination of ALPS 210, 210X & 210Y may be taken a maximum of six times for credit.		
ALPS 204	MOBILITY & FITNESS ASSESSMENT FOR THE DISABLED	.5 Unit	ALPS 211	FUNCTIONAL STRENGTH, BALANCE & CONDITIONING TRAINING FOR THE DISABLED	.5 Unit
Prerequisite:	Medically verified disability.		ALPS 211X		1 Unit
Advisory:	Pass/No Pass.		ALPS 211Y		3 Units
May be taken six times for credit.			Prerequisite:	Medically verified disability. Completion of ALPS 207.	
One and one-half hours laboratory.			Advisory:	Pass/No Pass.	
In depth assessment for psychomotor function.			Any combination of ALPS 211, 211X & 211Y may be taken a maximum of six times for credit.		
ALPS 205	COMMUNICATION SKILLS FOR THE DISABLED	.5 Unit	ALPS 212	EMERGENCY HOUSEHOLD PROCEDURES FOR THE DISABLED	.5 Unit
ALPS 205X		1 Unit	ALPS 212X		1 Unit
ALPS 205Y		1 Unit	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	
Any combination of ALPS 205, 205X & 205Y may be taken a maximum of six times for credit.			Any combination of ALPS 212, 212X & 212Y may be taken a maximum of six times for credit.		
One and one-half hours laboratory for each half unit of credit.			One and one-half hours laboratory for each half unit of credit.		
Designed to assist the student's enhancement of speech, language and/or hearing skills. Emphasis on post stroke and acquired brain injury.			Designed to promote confidence and personal safety in dealing with emergency situations.		
ALPS 206	ADAPTION SKILLS FOR THE DISABLED	.5 Unit	ALPS 213	COGNITIVE RETRAINING FOR THE DISABLED	.5 Unit
ALPS 206X		1 Unit	ALPS 213X		1 Unit
ALPS 206Y		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.		Any combination of ALPS 213, 213X & 213Y may be taken a maximum of six times for credit.		
Any combination of ALPS 206, 206X & 206Y may be taken a maximum of six times for credit.			One and one-half hours laboratory for each half unit of credit.		
One and one-half hours laboratory for each half unit of credit.			Specialized computer-assisted instruction. Emphasis on processing skills, memory training and problem solving skills.		
Designed to enhance adaptation skills for daily living particularly when dependence is a factor. Emphasis on post-stroke and acquired brain injury.					
ALPS 207	MOBILITY & FITNESS SKILLS FOR THE DISABLED	.5 Unit	ALPS 214	MANAGEMENT OF PHYSICAL ASPECTS OF DISABILITIES	.5 Unit
ALPS 207X		1 Unit	ALPS 214X		1 Unit
ALPS 207Y		3 Units	ALPS 214Y		3 Units
Prerequisite:	Medically verified disability. Completion or concurrent enrollment in ALPS 200.		Prerequisite:	Medically verified disability.	
Advisory:	Pass/No Pass		Advisory:	Pass/No Pass.	
Any combination of ALPS 207, 207X & 207Y may be taken a maximum of six times for credit.			Any combination of ALPS 214, 214X & 214Y may be taken a maximum of six times for credit.		
One and one-half hours laboratory for each half unit of credit.			One and one-half hours laboratory for each half unit of credit.		
Designed to assist the handicapped student's enhancement of balance, mobility and lifetime fitness skills. Emphasis on post-stroke and acquired brain injury.			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 208	COPING WITH DISABILITY	.5 Unit			
ALPS 208X		1 Unit			
ALPS 208Y		3 Units			
Prerequisite:	Medically verified disability.				
Advisory:	Pass/No Pass.				
Any combination of ALPS 208, 208X & 208Y may be taken a maximum of six times for credit.					
One and one-half hours laboratory for each half unit of credit.					
Designed to assist students to understand and deal with disabilities.					

ALPS 215	MOBILITY IN SITTING & STANDING FOR THE DISABLED	.5 Unit	ALTW 202	BASIC MATH SKILLS FOR THE DISABLED STUDENT	1 Unit
ALPS 215X		1 Unit		<i>Formerly: ALTW 104</i>	
ALPS 215Y		3 Units		Prerequisite: Verified disability.	
	Prerequisite: Medically verified disability.			May be taken two times for credit.	
	Advisory: Pass/No Pass.			Two hours lecture-laboratory.	
	Any combination of ALPS 215, 215X & 215Y may be taken a maximum of six times for credit.			Basic math skills for the disabled. Emphasis on basic math functions, moneyhandling and practical applications.	
	One and one-half hours laboratory for each half unit of credit.				
	Designed for students with minimal ambulatory skills and/or balance problems. Emphasis on developing symmetrical sitting balance, trunk control, and beginning standing activities leading to pre-gait and gait activities.				
ALPS 216	INDEPENDENT ACCESS SKILLS FOR POST-STROKE	.5 Unit	ALTW 203	LEARNING STYLES & STRATEGIES FOR THE DISABLED STUDENT	1 Unit
ALPS 216X		1 Unit		<i>Formerly: ALTW 102</i>	
ALPS 216Y		3 Units		Prerequisite: Verified disability.	
	Prerequisite: Medically verified disability.			May be taken two times for credit.	
	Advisory: Pass/No Pass.			Two hours lecture-laboratory.	
	Any combination of ALPS 216, 216X & 216Y may be taken a maximum of six 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.	
	One and one-half hours laboratory for each half unit of credit.				
	Designed to develop competence and confidence with independent orientation and mobility skills for post-stroke. Weekly field trips to allow accessibility to community resources, while participating in skill-building.				
ALPS 217	SPECIAL PROJECTS IN THE POST-STROKE PROGRAM	.5 Unit	ALTW 204	COMMUNICATION SKILLS FOR THE DISABLED STUDENT	1 Unit
ALPS 217X		1 Unit		<i>Formerly: ALTW 108</i>	
ALPS 217Y		3 Units		Prerequisite: Verified disability.	
	Prerequisite: Medically verified disability.			May be taken two times for credit.	
	Advisory: Pass/No Pass.			Two hours lecture-laboratory.	
	Any combination of ALPS 217, 217X & 217Y may be taken a maximum of six times for credit.			Enhancement of self-esteem and communication skills in order to increase confidence in interpersonal interactions.	
	One and one-half hours laboratory for each half unit of credit.				
	Activity and discussion focused on a tailored, individualized project for students who require or need additional help in community reintegration.				
ALPS 218	TRANSITION CLASS FOR POST-STROKE PROGRAM	.5 Unit	ALTW 205	OFFICE SKILLS FOR THE DISABLED STUDENT	2 Units
				<i>Formerly: ALTW 110</i>	
	Prerequisite: Medically verified disability.			Prerequisite: Verified disability.	
	Advisory: Pass/No Pass.			May be taken two times for credit.	
	May be taken six times for credit.			Four hours lecture-laboratory, one hour terminal time.	
	One hour lecture-laboratory.			Practical office skills needed for successful employment. Focuses on filing systems, records management and mail handling. Designed for the disabled student.	
	Designed to assist the handicapped student to transition from Reach Program to other community programs and activities.				
ALPS 220	CAREGIVING: LEARNING POSITIVE COPING SKILLS	.5 Unit	ALTW 206	BEGINNING WORD PROCESSING FOR THE DISABLED STUDENT	3 Units
ALPS 220X		1 Unit		<i>Formerly: ALTW 112</i>	
ALPS 220Y		3 Units		Prerequisite: Verified disability.	
	Prerequisite: Medically verified disability.			May be taken two times for credit.	
	Advisory: Pass/No Pass.			Two hours lecture, two hours lecture-laboratory, two hours terminal time.	
	Any combination of ALPS 220, 220X & 220Y may be taken a maximum of six 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.	
	One and one-half hours laboratory for each half unit of credit.				
	Designed to assist caregivers of persons with disabilities to understand the physical, emotional and familial aspects of disabilities with an emphasis on coping skills.				
ADAPTIVE LEARNING: TRANSITION TO WORK					
Adaptive Learning Division		(650) 949-7017		<i>Formerly: ALTW 113</i>	
		www.foothilled.edu/al/		Prerequisite: Verified disability.	
ALTW 201	BASIC ENGLISH FOR THE DISABLED STUDENT	1 Unit		May be taken six times for credit.	
	<i>Formerly: ALTW 105</i>			Four and one-half hours laboratory.	
	Prerequisite: Verified disability.			Practical skills needed for successful employment. Emphasis on on-the-job training experiences; discussion and evaluation of one's performance.	
	May be taken two times for credit.				
	Two hours lecture-laboratory.				
	Basic English skills for the disabled. Emphasis on grammar, sentence and paragraph structure and practical applications.				
ALTW 209	SOCIAL SKILLS FOR THE DISABLED STUDENT	1 Unit			
	<i>Formerly: ALTW 117</i>				
	Prerequisite: Verified disability.				
	May be taken two times for credit.				
	Two hours lecture-laboratory.				
	Enhancement of self-esteem and socialization skills in order to increase confidence in personal and social interactions.				

ALTW 210	OFFICE APPLICATIONS FOR THE DISABLED STUDENT	2 Units	ALTW 219	USING THE INTERNET FOR THE DISABLED STUDENT	1 Unit
<i>Formerly: ALTW 120</i>			Prerequisite: Verified disability.		
Prerequisite: Verified disability.			May be taken two times for credit.		
May be taken two times for credit.			Four hours lecture-laboratory, one hour internship.		
Four hours lecture-laboratory, one hour internship.	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 227	SKILLS LAB FOR THE DISABLED STUDENT	.5 Unit
Prerequisite: Verified disability.			Prerequisite: Verified disability.		
May be taken two times for credit.			Co-requisite: Concurrent enrollment in another Transition to Work Program class.		
Two hours lecture, two hours lecture laboratory, two hours terminal time.	Introduction to Excel and its uses for the student with little computer experience. Emphasis on spreadsheets, charts and tables. Designed for the disabled student.		May be taken six 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.			One and one-half hours laboratory.		
ALTW 212	JOB SEARCH SKILLS: THE RESUME FOR THE DISABLED STUDENT	1 Unit	Practical application of learning strategies, time management, organization and planning skills which are taught in Transition To Work classes.		
Prerequisite: Verified disability.					
May be taken two times for credit.					
Two hours lecture-laboratory.	Focuses on resume writing techniques and filling out practice job applications.				
ALTW 213	WORK ATTITUDES & BEHAVIOR FOR THE DISABLED STUDENT	1 Unit	ALTW 228	SPECIAL PROJECTS FOR THE DISABLED STUDENT	1 Unit
Prerequisite: Verified disability.			Prerequisite: Verified disability.		
May be taken two times for credit.			May be taken two times for credit.		
Two hours lecture-laboratory.	Activity and discussion focused on a tailored, individualized project. Designed for the disabled student.		Two hours laboratory.		
Designed to help the students develop appropriate work behavior and attitudes. Focuses on attitudes, fears, and expectations as they relate to work.					
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.			Prerequisite: Medically verified disability.		
May be taken two times for credit.			May be repeated six times for credit.		
Two hours lecture-laboratory.	Evaluation and assessment to determine eligibility for the Transition to Work (TTW) Program.		One hour laboratory.		
Focuses on interviewing techniques and the special problems faced by the disabled in seeking employment. The informational interview procedure will be explored through lectures and role-play.					
ALTW 215	TRANSITION TO WORK FOR THE DISABLED STUDENT	1 Unit	ALTW 402	TRANSITION TO WORK ORIENTATION	0 Units
Prerequisite: Verified disability.			Prerequisite: Verified disability.		
May be taken two times for credit.			May be repeated six times for credit.		
Two hours lecture-laboratory.	Orientation to the Transition to Work Program and campus policies, resources and services. Formulation of the Student Educational Contract (SEC).		One and one-half hours laboratory.		
Prepare and evaluate personal, educational and vocational information for transition to work.					
ALTW 216	DISABILITY & THE LAW FOR THE DISABLED STUDENT	1 Unit	ADVT 57	PRINCIPLES OF ADVERTISING	4 Units
Prerequisite: Verified disability.			Advisory: Not open to students with credit in BUSI 57.		
May be taken two times for credit.			Four hours lecture.		
Two hours lecture-laboratory.	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.				
Understanding basic citizens' rights and responsibilities. Emphasis on the Americans with Disabilities Act.					
ALTW 217	INTERMEDIATE COMPUTER APPLICATIONS FOR THE DISABLED STUDENT	3 Units	ADVERTISING		
Prerequisite: Verified disability.			Business & Social Sciences Division	(650) 949-7322	
May be taken two times for credit.			www.foothill.edu/bss/		
Two hours lecture-laboratory.					
Understanding basic citizens' rights and responsibilities. Emphasis on the Americans with Disabilities Act.					
ALTW 218	CURRENT EVENTS FOR THE DISABLED STUDENT	1 Unit	ADVT 57	PRINCIPLES OF ADVERTISING	4 Units
Prerequisite: Verified disability.			Advisory: Not open to students with credit in BUSI 57.		
May be taken two times for credit.			Four hours lecture.		
Two hours lecture-laboratory.	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.				
Survey of current events for the disabled student.					
ALTW 219	USING THE INTERNET FOR THE DISABLED STUDENT	1 Unit	ALLIED HEALTH SCIENCES		
Prerequisite: Verified disability.			Biological & Health Sciences Division	(650) 949-7249	
May be taken two times for credit.			www.foothill.edu/bio/		
Two hours lecture-laboratory.					
Survey of current events for the disabled student.					
AHS 200	ORIENTATION TO HEALTH CARE CAREERS	3 Units	AHS 200	ORIENTATION TO HEALTH CARE CAREERS	3 Units
Three hours lecture.			Three hours lecture.		
Orientations 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, and culture change. Anthropological perspectives to contemporary issues. [CAN ANTH 4]

ANTH 2B PATTERNS OF CULTURE 4 Units

Four hours lecture.

Comparative study of patterns in culture using configurational, functional, structural and evolutionary concepts. In-depth study of one culture living within the United States.

ANTH 3 PREHISTORY: THE SEARCH FOR LOST CIVILIZATIONS 4 Units

Four hours lecture.

Origin and development of culture through various stages of the Paleolithic, Mesolithic and Neolithic. Development of culture in Africa, Asia and the New World correlated with human evolution. Techniques of tool-making, changes in 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 8.

Three hours laboratory.

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.

May be taken three times for credit.

One hour lecture, nine hours laboratory.

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.

May be taken three times for credit.

Six hours laboratory.

Introduction to field survey in archaeology. Emphasis on site identification, survey techniques and recording skills. All work is conducted at field sites.

ANTH 34 HONORS INSTITUTE SEMINAR IN ANTHROPOLOGY 1 Unit

Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in anthropology. Specific topics to be determined by the instructor.

ANTH 35 DEPARTMENT HONORS PROJECTS IN ANTHROPOLOGY 1 Unit

May be taken six times for credit.

One hour lecture.

Seminar in 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

Any combination of ANTH 36, 36X, 36Y, & 36Z may be taken for a maximum of six units.

One hour lecture.

Advanced readings, research and/or projects in anthropology. Specific topics determined in consultation with instructor.

ANTH 50 MEDICAL ANTHROPOLOGY: METHODS & PRACTICE 4 Units

Four hours lecture.

Cultural aspects of life and death, sickness and health. Theories of illness causation from varied world cultures and American sub-cultures. Attention to theories and practices of traditional field methodology.

ART

Fine Arts & Communication 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. [CAN ART 2 = ART 2A+2B, CAN ART SEQ A = ART 2A+2B+2C]

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. [CAN ART 2 = ART 2A+2B, CAN ART 4 = ART 2B+2C, CAN ART SEQ A = ART 2A+2B+2C]

ART 2C	ART HISTORY	4 Units	ART 5A	BASIC TWO-DIMENSIONAL DESIGN	3 Units
Four hours lecture.			ART 5AX		1 Unit
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. [CAN ART 4 = ART 2B+2C, CAN ART SEQ A = ART 2A+2B+2C]			Advisory: Students taking this course to satisfy the AA/AS General Education requirement or CSU GE in Humanities must complete ART 5AX.		
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART	4 Units	Six hours lecture-laboratory.		
Four hours lecture.			Introduction to 2 dimensional design elements, principles of composition, and design components that include content development, visual perception, and material exploration. And emphasis on problem solving techniques and personal discovery. [CAN ART 14]		
Survey of traditional arts of selected cultures from Africa, the Oceanic and Native America.					
ART 2E	A HISTORY OF WOMEN IN ART	4 Units	ART 5B	THREE-DIMENSIONAL DESIGN	3 Units
Advisory: Not open to students with credit in WMN 15.			Advisory: ART 4A & 5A.		
Four hours lecture.			Six hours lecture-laboratory.		
A cross-cultural examination of art works and gender issues concerning women artists from the early Middle-Ages to the 21st century.			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 3	MODERN ART & CONTEMPORARY THOUGHT	4 Units	ART 5L	DESIGN LABORATORY	1 Unit
Four hours lecture.			Advisory: Pass/No Pass		
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.			Corequisite: Concurrent enrollment in ART 5A or 5B.		
			May be taken three times for credit.		
ART 4A	INTRODUCTION TO DRAWING	3 Units	Three hours laboratory.		
Advisory: Students taking this course to satisfy the AA/AS General Education requirement or CSU GE in Humanities must complete ART 4AX.			Supervised studio practice in design projects.		
Six hours lecture-laboratory.					
An introductory course in drawing to develop the ability to perceive and define shape, volume, space, and light both representationally and expressively using black and white media. [CAN ART 8 = ART 4A+4B]					
ART 4AX	STUDIO ART SEMINAR: DRAWING	1 Unit	ART 6	COLLAGE & COMPOSITION	3 Units
Three hours laboratory.			Advisory: ART 4A or 5A.		
Examination and critique of visual arts subjects.			May be taken three times for credit.		
			Six hours lecture-laboratory.		
ART 4B	INTERMEDIATE DRAWING	3 Units	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.		
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. [CAN ART 8 = ART 4A+4B]					
ART 4C	ADVANCED DRAWING	3 Units	ART 8	BASIC PERSPECTIVE DRAWING	3 Units
ART 4CX		1 Unit	Prerequisite: ART 4A.		
Advisory: ART 4B. Students taking this course to satisfy the CSU General Education requirement in Humanities must complete ART 4CX.			Advisory: Not open to students with credit in GRDS 75.		
May be taken two times for credit.			Six hours lecture-laboratory.		
Six hours lecture-laboratory.			Sketching objects realistically in linear representation. Exploring ways to depict three-dimensional space on a flat drawing surface.		
Continuation of ART 4B, with increased emphasis on textures spatial complexity, and development of individual expression.					
ART 4D	FIGURE DRAWING	3 Units	ART 9	MATERIALS & MEDIA	3 Units
Advisory: ART 4A, 4B recommended.			Six hours lecture-laboratory.		
May be taken three times for credit.			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.					
Continuation of principles introduced in ART 4A & 4B with special emphasis on the fundamentals of drawing the human figure. [CAN ART 24]					
ART 4E	PORTRAIT DRAWING	3 Units	ART 11	INTRODUCTION TO MEXICAN ART & ARCHITECTURE	4 Units
Advisory: ART 4A & 4B recommended.			Four hours lecture.		
May be taken three times for credit.			A study of the influence of Spanish colonization and the impact on indigenous art and architecture. Emphasis on both the transformation of identity in art as a result of the cross cultural experience and the changing perceptions of culture on a local and global level. Emphasis on the similarities and differences of various cultural perspectives in art making beginning with Mexico and the United States.		
Six hours lecture-laboratory.					
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	ART 12	INTRODUCTION TO ASIAN ART	4 Units
Advisory: Pass/No Pass.			Four hours lecture.		
Corequisite: Concurrent enrollment in ART 4A, 4B, or 4C.			An introduction to the art of India, China and Japan from the Neolithic Age to the present, covering painting, sculpture, architecture and ceramics.		
May be taken four times for credit.					
Three hours laboratory.					
Supervised studio practice in drawing projects.					
ART 13	INTRODUCTION TO ISLAMIC ART	4 Units	ART 14	AMERICAN ART	4 Units
Four hours lecture.			Four hours lecture, one hour laboratory.		
The arts and architecture of the Islamic peoples from the seventh through the 17th Century.			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.		

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

Foothill College 2006-2007

ART 19A PAINTING Advisory: ART 4A or 5A; ART 4B or 20A. Six hours lecture-laboratory. Studio experiences in basic techniques of painting and composition using oil and/or acrylic paints. [CAN ART 10 = ART 19A+19B]	3 Units	ART 39A BEGINNING SCREEN PRINTING Advisory: ART 4A or 5A. Not open to students with credit in GID 46. Six hours lecture-laboratory. An introduction to screen printing processes, exploring the basic techniques for making cut stencil designs and drawn stencil images.	3 Units
ART 19B PAINTING Prerequisite: ART 19A. Six hours lecture-laboratory. Continuation of ART 19A. Further studies in studio techniques. [CAN ART 10 = ART 19A+19B]	3 Units	ART 39B PHOTOGRAPHIC SCREEN PRINTING Prerequisite: ART 39A or GID 46. Advisory: PHOT 1 or GID 74. Six hours lecture-laboratory. Introduction to photographic techniques in screen printing, working with computer generated or darkroom produced transparencies in stencil making.	3 Units
ART 19C PAINTING Advisory: ART 19B. May be taken two times for credit. Six hours lecture-laboratory. Advanced studio experiences in techniques of painting and composition using oil and/or acrylic paints.	3 Units	ART 39C SCREEN PRINTING PRACTICES Prerequisite: ART 39B. Six hours lecture-laboratory. A course for experienced students to explore combining the various techniques of screen printing in the development of images with strong formal and conceptual qualities. The printing of uniform editions and the presentation of final artwork will be discussed.	3 Units
ART 19L PAINTING LABORATORY Advisory: Pass/No Pass. Corequisite: Concurrent enrollment in ART 19A, 19B, or 19C. May be taken four times for credit. Three hours laboratory. Supervised studio practice in painting projects.	1 Unit	ART 39L SCREEN PRINTING LABORATORY Corequisite: Concurrent enrollment in ART 39A, 39B, or 39C. May be taken six times for credit. Two hours supervised laboratory practices. Supervised studio practice in screen printing projects.	.5 Unit
ART 20A COLOR Six hours lecture-laboratory. A fundamental course in color and its creative application.	3 Units	ART 43 MOLD CONSTRUCTION FOR CERAMIC ART Prerequisite: ART 45A or 45B. Advisory: Concurrent enrollment in ART 45L or 45LX. Six hours lecture-laboratory. Studio practice in designing and constructing plaster molds for use in producing ceramic art works, making ceramic works from these molds and instruction in glazing.	3 Units
ART 20B COLOR Prerequisite: ART 20A. Six hours lecture-laboratory. Continued practice in creative application of color theory.	3 Units	ART 43L CERAMICS LABORATORY Advisory: Pass/No Pass. Corequisite: Concurrent enrollment in ART 43. Two hours laboratory. Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 43.	.5 Unit
ART 35X SPECIAL PROBLEMS IN ART (HONORS) May be taken six times for credit. Four and one-half hours laboratory. Individual advanced projects in painting, drawing, sculpture, ceramics and photography.	1.5 Units	ART 44 CERAMIC SCULPTURE Prerequisite: ART 45A. Advisory: Concurrent enrollment in ART 45L or 45LX. May be taken two times for credit. Six hours lecture-laboratory. Studio practice in designing and creating original ceramic sculpture.	3 Units
ART 36 HISTORY OF GRAPHIC DESIGN Advisory: Not open to students with credit in GID 1. Pass/No Pass. Four hours lecture. A study of the development and interpretation of visual communication in 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.	4 Units	ART 44L CERAMICS LABORATORY Advisory: Pass/No Pass. Corequisite: Concurrent enrollment in ART 44. May be taken two times for credit. Two hours laboratory. Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 44.	.5 Unit
ART 37A BEGINNING ETCHING Advisory: Not open to students with credit in GID 42. Six hours lecture-laboratory. Beginning techniques in printmaking, including embossing, monoprinting, chine colle, drypoint, softground, line etching, handcoloring, printing and the editioning of plates.	3 Units	ART 45A BEGINNING CERAMICS HANDBUILDING Advisory: Concurrent enrollment in ART 45AL. Students taking this course to satisfy the AA/AS General Education requirement or CSU GE in Humanities must complete ART 45AX. May be taken two times for credit. Six hours lecture-laboratory. An introduction to techniques of handbuilding and basic glazing. [CAN ART 6 = ART 45A+45AX]	3 Units
ART 37B INTERMEDIATE ETCHING Prerequisite: ART 37A. Six hours lecture-laboratory. Continuation of ART 37A with introduction of further techniques including aquatint, sugarlift, photographic processes, and contemporary developments in the discipline.	3 Units	ART 45AL CERAMICS LABORATORY Advisory: Pass/No Pass. Corequisite: Concurrent enrollment in ART 45A. May be taken two times for credit. Two hours laboratory. Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45A.	.5 Unit
ART 37C ADVANCED ETCHING Prerequisite: ART 37B. May be taken two times for credit. Six hours lecture-laboratory. The application and exploration of techniques introduced in ART 37A and ART 37B toward the development of personal and expressive imagery and style.	3 Units		

ART 45AX	BEGINNING CERAMICS SEMINAR	1 Unit	ART 45L	CERAMICS LABORATORY	.5 Unit
One hour lecture.			ART 45LX		1 Unit
Examination and critique of visual arts subjects. [CAN ART 6 = ART 45A+45AX]			Corequisite: Concurrent enrollment in a two or three unit ceramics course. Any combination of ART 45L & 45LX may be taken a maximum of six times for credit.		
ART 45B	BEGINNING CERAMICS POTTER'S WHEEL	3 Units	Two hours laboratory.		
Advisory: Concurrent enrollment in ART 45BL. Students taking this course to satisfy the CSU General Education requirement in humanities must complete ART 45BX.			Supervised studio practice in ceramics processes, related to skills and materials of other ceramics courses in which the student is currently enrolled.		
May be taken two times for credit.					
Six hours lecture-laboratory.					
An introduction to techniques of throwing on the potter's wheel and basic glazing.					
ART 45BL	CERAMICS LABORATORY	.5 Unit	ART 47	WATERCOLOR	4 Units
Advisory: Pass/No Pass.			Advisory: ART 4A or 5A; ART 4B, 20A.		
Corequisite: Concurrent enrollment in ART 45B.			May be taken three times for credit.		
May be taken two times for credit.			Six hours lecture-laboratory.		
Two hours laboratory.			Study of transparent and opaque watercolor techniques. Emphasis on basic techniques of painting and composition.		
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45B.					
ART 45BX	STUDIO ART SEMINAR: CERAMICS WHEEL	1 Unit	ART 49	MONOPRINTING	3 Units
One hour lecture.			Advisory: Not open to students with credit in GID 48.		
Examination and critique of visual arts subjects.			Six hours lecture-laboratory.		
ART 45C	ADVANCED CERAMICS	3 Units	Studio experiences in printmaking methods that create one-of-a-kind fine art prints. Emphasis on artistic growth of imagery while developing technical skills with tools, media and techniques.		
Prerequisite: ART 45A and 45B.					
Advisory: Concurrent enrollment in ART 45L or 45LX.			ART 56	INTRODUCTION TO COMPUTER GRAPHICS	4 Units
May be taken six times for credit.			Advisory: Familiarity with computer operating systems, ART 4A or GID 70; ART 5A; PHOT 1. Not open to students with credit in GID 74 or PHOT 75.		
Six hours lecture-laboratory.			Six hours lecture-laboratory, three hours laboratory.		
Laboratory practice in throwing advanced forms on the potter's wheel, combining hand-built and wheel-thrown forms and glazing.			Basic instruction using a computer for painting, drawing, image processing, photo composites and typography. Emphasis on image making and creative problem solving.		
ART 45CL	CERAMICS LABORATORY	.5 Unit	ART 66	THE ART OF SPAIN	3 Units
Advisory: Pass/No Pass.			Advisory: ART 1.		
Corequisite: Concurrent enrollment in ART 45C.			Four hours lecture		
May be taken six times for credit.			Historical survey of painting, sculpture and architecture from Roman times to the 21st Century.		
Two hours laboratory.					
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45C.			ART 69	INTRODUCTION TO PRINTMAKING	3 Units
			May be taken three times for credit.		
ART 45D	ADVANCED CERAMICS DECORATING TECHNIQUES	3 Units	Six hours lecture-laboratory.		
Prerequisites: ART 45A or 45B.			Introduction to the basic processes of blockcut, intaglio, screen, mono- and mixed-media original prints. [CAN ART 20]		
Advisory: Concurrent enrollment in ART 45L or 45LX.					
May be taken two times for credit.			ART 70	KILN DESIGN, CONSTRUCTION & OPERATION	3 Units
Six hours lecture-laboratory.			Prerequisites: ART 45A or 45B.		
Studio practice in a variety of decorating and glazing methods for greenware and bisqueware.			Advisory: Concurrent enrollment in ART 45L or 45LX.		
			Six hours lecture-laboratory.		
ART 45DL	CERAMICS LABORATORY	.5 Unit	Studio practice in designing and building ceramic kilns.		
Advisory: Pass/No Pass.					
Corequisite: Concurrent enrollment in ART 45D.			ART 72	STUDIO ART PORTFOLIO PREPARATION	3 Units
May be taken two times for credit.			One hour lecture, five hours lecture-laboratory		
Two hours laboratory.			Preparation, organization, and assembly of previous and current artwork to create a cohesive studio art portfolio. This course enables students and practicing artists the preparation in creating a professional portfolio for transfer into higher institutions, career opportunities, art exhibitions, art competitions, funding, or professional practice. Documenting work, writing artist statements, practice interviews, and assembling portable portfolios are included in this course.		
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 80	MURAL MAKING: COMMUNITY ART PROJECT	3 Units
Prerequisite: ART 45A or 45B.			Advisory: ART 4A or 15A; ART 19A, 20A.		
Advisory: Concurrent enrollment in ART 45FL.			Six hours lecture-laboratory.		
May be taken two times for credit.			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.		
Six hours lecture-laboratory.					
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			
Advisory: Pass/No Pass.					
Corequisite: Concurrent enrollment in ART 45F.					
May be taken two times for credit.					
Two hours laboratory.					
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45F.					

ART 83	SERVICE LEARNING PROJECTS	4 Units	ASTR 34	HONORS INSTITUTE SEMINAR IN ASTRONOMY	1 Unit
Advisory: Completion of entry level design and software courses.			Prerequisite: Membership in the Honors Institute.		
May be taken three times for credit.			Corequisite: ASTR 10A or 10B must be taken concurrently or previously.		
Six hours lecture-laboratory, three hours laboratory.			One hour lecture.		
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.			A seminar in directed readings, discussions and projects in astronomy. Specific topics to be determined by the instructor.		
ART 86	PAINTING WITH THE COMPUTER	3 Units	ASTR 36	SPECIAL PROJECTS IN ASTRONOMY	1 Unit
Advisory: Familiarity with computer operations.			ASTR 36X		2 Units
May be taken three times for credit.			ASTR 36Y		3 Units
Two hours lecture, three hours laboratory.			Any combination of ASTR 36, 36X, & 36Y may be taken for a maximum 18 units of credit.		
Basic instruction using computers and computer software to produce images for artistic expression and graphic design.			Three hours laboratory.		
ART 87	ART OF THE ELECTRONIC AGE	2 Units	ASTR 96	ECLIPSES	2 Units
Two hours lecture.			Non-degree applicable credit course.		
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.			Two hours lecture.		
ART 190	DIRECTED STUDY	.5 Unit	ASTR 105	SEMINAR IN HANDS-ON ASTRONOMY	1 Unit
ART 190X		1 Unit	Corequisite: ASTR 10A or 10B must be taken concurrently or previously.		
ART 190Y		1.5 Units	One hour lecture.		
ART 190Z		2 Units	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.		
Non-degree applicable credit course.			ASTR 190	DIRECTED STUDY	.5 Unit
Advisory: Pass/No Pass.			ASTR 190X		1 Unit
Any combination of ART 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.			ASTR 190Y		1.5 Units
One and one-half hours laboratory.			ASTR 190Z		2 Units
For students who desire or require additional help in attaining comprehension and competency in learning skills.			Advisory: Pass/No Pass.		

ASTRONOMY

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/ast/

ASTR 10A GENERAL ASTRONOMY: SOLAR SYSTEM 5 Units

Advisory: Concurrent enrollment in ASTR 10L.

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.

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 10B.

Two hours lecture-laboratory.

Hands-on approach to astronomical data and equipment. Students will do experiments and observing projects about star and constellation finding, the phases of the Moon, seasons, the rotation, revolution, and sphericity of the Earth, the nature of light, the validity of astrology, etc.

ASTR 34	HONORS INSTITUTE SEMINAR IN ASTRONOMY	1 Unit
Prerequisite: Membership in the Honors Institute.		
Corequisite: ASTR 10A or 10B must be taken concurrently or previously.		
One hour lecture.		
A seminar in directed readings, discussions and projects in astronomy. Specific topics to be determined by the instructor.		
ASTR 36	SPECIAL PROJECTS IN ASTRONOMY	1 Unit
ASTR 36X		2 Units
ASTR 36Y		3 Units
Any combination of ASTR 36, 36X, & 36Y may be taken for a maximum 18 units of credit.		
Three hours laboratory.		
A seminar in directed reading and discussion in astronomy. An opportunity to do astronomical research and observing at Foothill College Observatory.		
ASTR 96	ECLIPSES	2 Units
Non-degree applicable credit course.		
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 previously.		
One hour lecture.		
A seminar of discussions and projects in astronomy for those with an interest in pursuing it as an avocation, hobby, or special interest. Older adults are especially welcome in the course. Topics will include: constellation lore and constellation finding; Family Astronomy: doing astronomy with kids and grandkids; eclipses and eclipse chasing, astronomy's influence on fiction, poetry, music, and films; astronomy and the big questions, such as black holes and time machines, what happened before the Big Bang, and the course of Cosmic Evolution.		

ASTR 190	DIRECTED STUDY	.5 Unit
ASTR 190X		1 Unit
ASTR 190Y		1.5 Units
ASTR 190Z		2 Units
Advisory: Pass/No Pass.		
Any combination of ASTR 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.		
One-half hour lecture, one and one-half hours lecture-laboratory.		
For students who desire or require additional help in attaining comprehension and competency in astronomy.		

ATHLETICS

See Human Performance.

BIOLOGY

Biological & Health Sciences Division (650) 949-7249
www.foothill.edu/bio/programs/biosci/

BIOL 1A	PRINCIPLES OF CELL BIOLOGY	6 Units
Prerequisite: CHEM 1A.		
Students taking the biology majors' sequence (1 A, B, C, D) are strongly advised to take the sequence in order and in its entirety.		
Four hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.		

An introduction to cellular structure and function, biological molecules, bioenergetics, the genetics of both prokaryotic and eukaryotic organisms, and elements of molecular biology. [CAN BIOL 2, CAN BIOL SEQ A = BIOL 1A+1B+1C]

BIOL 1B FORM & FUNCTION IN PLANTS & ANIMALS 6 Units

Prerequisite: BIOL 1A.

Advisory: Students taking the biology majors' sequence (1A, B, C, D) are strongly advised to take the sequence in order and in its entirety. Four hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.

An introduction to the structure and physiological processes of plants and animals. Transport systems, reproduction, nutrition, gas exchange, regulation of the internal environment, response to external stimuli, defense against disease, nervous systems, hormones, and locomotion. [CAN BIOL SEQ A = BIOL 1A+1B+1C]

BIOL 1C EVOLUTION, SYSTEMATICS & ECOLOGY 6 Units

Prerequisite: BIOL 1A.

Advisory: Students taking the biology majors' sequence (1A, B, C, D) are strongly advised to take the sequence in order and in its entirety. Four hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.

Principles of evolutionary theory, classification of organisms, and basic ecology. Phylogenetic survey of the major groups of organisms (bacteria, protists, plants, animals and fungi) and their evolutionary history. [CAN BIOL SEQ A = BIOL 1A+1B+1C]

BIOL 1D MOLECULAR GENETICS 4 Units

Prerequisite: BIOL 1A.

Advisory: Students taking the biology majors' sequence (1 A, B, C, D) are strongly advised to take the sequence in order and in its entirety. Students may choose to take Biology 1DL to obtain laboratory experience in this subject. Four hours lecture.

An introduction to molecular biology with an emphasis in molecular genetics, cell communication, and developmental biology.

BIOL 1DL MOLECULAR GENETICS LABORATORY 2 Units

Prerequisite: BIOL 1A.

Advisory: Concurrent or prior enrollment in BIOL 1D.

Four hours lecture-laboratory.

Introduction to the biological laboratory techniques and methods used in molecular 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 8 BASIC NUTRITION 5 Units

Advisory: MATH 200; eligibility for ENG 1A.

Five hours lecture.

Basic principles of nutrition science. Biological function of nutrients. Nutritional needs throughout the life span. Relationship between nutrition and disease. Current scientific, social, and psychological issues and controversies in nutrition.

BIOL 9 ENVIRONMENTAL BIOLOGY 4 Units

Four hours lecture.

An introduction to environmental biology and a survey of the biological and ecological principles needed to understand environmental issues. Global, national and local perspectives on current issues such as resource use, pollution, biodiversity and impacts of human population growth.

BIOL 9L ENVIRONMENTAL BIOLOGY LABORATORY 1 Unit

Corequisite: BIOL 9.

One hour lecture-laboratory, two hours laboratory, one hour collaborative learning. In-class field trips.

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.

BIOL 10 GENERAL BIOLOGY: BASIC PRINCIPLES 5 Units

Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.

Methods of science and basic principles of biology. Special emphasis on genetics, ecology, overpopulation, nutrition and disease prevention.

BIOL 12 HUMAN GENETICS 4 Units

Four hours lecture.

An introduction to the nature of human inheritance. The molecular basis of inheritance, Mendelian genetics, and population genetics; factors affecting human diversity and the social and moral implications of recent advances in genetics.

BIOL 13 MARINE BIOLOGY 5 Units

Four hours lecture, one hour lecture-laboratory, two hours laboratory, three all-day field trips, one hour collaborative learning.

An introduction to biology using marine animals, plants and ecosystems. Major emphasis given to the ecology and conservation issues with examples drawn from California marine life. Conceptual development of seashore, estuaries, coral reefs, kelp forests, and pelagic life as interrelated ecosystems.

BIOL 14 HUMAN BIOLOGY 5 Units

Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.

An introduction to biology using human beings as the exemplary organism. The evolution and biological unity of the human species and of all life forms; American and global patterns of human biological diversity; reproduction and heredity; how human organ systems function; humans and their environment; the uses and misuses of the scientific method; the scientific and biological bases for human equality.

BIOL 15 CALIFORNIA ECOLOGY/NATURAL HISTORY 5 Units

Four hours lecture, one hour lecture-laboratory, two hours laboratory, all-day field trips.

An introduction to ecology, natural history and field biology through the study, largely in an outdoor setting, of the plants and animals of the San Francisco Bay area.

BIOL 17 BIOTECHNOLOGY & SOCIETY 4 Units

Four hours lecture.

Introduction to the scientific principles and techniques of biotechnology, including recombinant gene technology and gene cloning, recombinant protein design, applications of immunological techniques to biotechnology. Discussion of technical, ethical and safety concerns presented by medical, agricultural, pharmaceutical and forensic applications of biotechnology.

BIOL 34 HONORS INSTITUTE SEMINAR IN BIOLOGY 1 Unit

Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in biology. Specific topics to be determined by the instructor.

BIOL 35 DEPARTMENT HONORS 1 Unit**BIOL 35X PROJECTS IN BIOLOGY 2 Units**

Any combination of BIOL 35 & 35X may be taken a maximum of six times for credit. Three hours laboratory.

Advanced readings, research and/or laboratory projects in Biology. Specific topics must be determined in consultation with instructor. Laboratory projects must be designed during one quarter and performed during a second quarter.

BIOL 40A HUMAN ANATOMY & PHYSIOLOGY 5 Units

Advisory: High school biology or BIOL 10 or equivalent; high school chemistry or CHEM 30A or equivalent. Critical reading skills and knowledge of English sentence structure and ability to comprehend spoken English in academic context; or ESL 25 and 165; BIOL 40A, 40B and 40C be taken in sequence. Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.

Basic human anatomy and physiology. Emphasis on integration of systems and homeostatic mechanisms. Physical and chemical basis of life, histology and integumentary, skeletal and muscular systems. Designed for majors that require fundamental background in human anatomy and physiology. [CAN BIOL SEQ B = BIOL 40A+40B+40C]

BIOL 40B HUMAN ANATOMY & PHYSIOLOGY 5 Units

Advisory: BIOL 40A; Critical reading skills and knowledge of English sentence structure, and ability to comprehend spoken English in academic context; or ESL 25 and 165.

Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.

A continuation of BIOL 40A. Anatomy and physiology of the nervous system, cardiovascular system and respiratory system. [CAN BIOL SEQ B = BIOL 40A+40B+40C]

BIOL 40C HUMAN ANATOMY & PHYSIOLOGY 5 Units

Advisory: BIOL 40B; critical reading skills and knowledge of English sentence structure and ability to comprehend spoken English in academic context; or ESL 25 and 165; BIOL 40A, 40B and 40C be taken in sequence.

Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour collaborative learning.

A continuation of BIOL 40B. Anatomy and physiology of the lymphatic system; endocrine system; digestive system; metabolism; urinary system; fluid, electrolyte and acid/base balance, and the reproductive system. [CAN BIOL SEQ B = BIOL 40A+40B+40C]

BIOL 41	MICROBIOLOGY	5 Units	
Prerequisite: High school chemistry or CHEM 30A.			
Advisory: ESL 25 and 165 recommended. Critical reading skills and knowledge of English sentence structure, and ability to comprehend spoken English in academic context.			
Three hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.			
Morphology and physiology of bacteria, fungi and viruses. Mechanisms of pathogenicity, host-parasite relationships, the immune response and principles of disease transmission. Techniques of microbial control including sterilization, aseptic procedures, use of disinfectants, 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 64	PROTEIN ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE	1 Unit	
Prerequisites: Laboratory experience (high school and/or professional experience). High school biology, chemistry, algebra recommended.			
Advisory: BIOL 64 and BTEC 64 are interchangeable.			
May be taken two times for credit.			
Two hours lecture-laboratory.			
Understanding, using, and performing electrophoretic separations and transfers in a research or industrial setting. This is to include the molecular and physical basis of specific techniques, and their practical applications. Techniques covered will include gel electrophoresis, capillary electrophoresis, isoelectric focusing, 2D gels and electrotransfers. The applications of these techniques for proteins, carbohydrates and small molecules, within research and industry will be presented. The instrumentation used for electrophoresis, isoelectric focusing, and capillary electrophoresis and practical experience with reagents and instrumentation will be emphasized. Students will follow established protocols, and demonstrate an understanding of supporting routine operations and standard protocols.			
BIOL 65	NUCLEIC ACIDS ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE	1 Unit	
Prerequisites: Laboratory experience (high school and/or professional experience). High school biology, chemistry, algebra recommended.			
Advisory: BIOL 65 and BTEC 65 are interchangeable.			
May be taken two times for credit.			
Two hours lecture-laboratory.			
Understanding, using, and performing electrophoretic separations and transfers in a research or industrial setting. This is to include the molecular and physical basis of specific techniques, and their practical applications. Techniques covered will include gel electrophoresis, capillary electrophoresis and electrotransfers. The applications of these techniques for proteins, and small molecules, within research and industry will be presented. The instrumentation used for electrophoresis, capillary electrophoresis, and pulsed gel electrophoresis and practical experience with reagents and instrumentation will be emphasized. Students will follow established protocols, and demonstrate an understanding of supporting routine operations and standard protocols.			
BIOL 66	HPLC: BASIC LABORATORY TECHNIQUE	2 Units	
Prerequisites: High School biology, chemistry and algebra; laboratory experience.			
Advisory: BIOL 66 and BTEC 66 are interchangeable.			
May be taken two times for credit.			
Four hours lecture-laboratory.			
Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.			
BIOL 67	IMMUNOLOGICAL ASSAYS	1 Unit	
Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra.			
Advisory: BIOL 67 and BTEC 67 are interchangeable.			
May be taken two times for credit.			
Two hours lecture-laboratory.			
Understanding and performing immunological assays. Includes the theory, molecular basis, and research/diagnostic applications of several techniques. Techniques covered will include, direct, indirect, sandwich, and quantitative ELISAs, and Western blotting. Practical experience with reagents (selection of conjugated antibodies, detection systems) and instrumentation (microtiter plate reader, polyacrylamide gel electrophoresis apparatus, transfer apparatus) will be emphasized.			
BIOL 69	BASIC MAMMALIAN CELL CULTURE TECHNIQUES	2 Units	
Prerequisites: Laboratory experience (high school, college and/or professional).			
Advisory: BIOL 69 and BTEC 69 are interchangeable. High school chemistry, biology, algebra.			
May be taken two times for credit.			
Four hours lecture-laboratory.			
Introduction to general mammalian cell culture techniques, including media preparation, sterile technique, freezing, thawing, and maintaining primary cells and cell lines. Theoretical considerations will include purpose and selection of media components, setting up and maintaining a sterile cell culture environment, and controlling contamination. Students will gain practical experience working in the laminar flow hood, counting cells, isolating cells from a primary source, and maintaining healthy adherent and suspension cells in culture. Emphasis will also be given to proper care and use of equipment used in a cell culture facility: laminar flow hoods, CO ₂ incubators, water baths, and the inverted microscope.			
BIOL 71	DNA SEQUENCING & BIOINFORMATICS: BASIC LABORATORY TECHNIQUES	2 Units	
Prerequisites: Laboratory experience (high school and/or professional).			
Advisory: BIOL 71 and BTEC 71 are interchangeable. High school biology, chemistry, algebra recommended.			
May be taken two times for credit.			
Four hours lecture-laboratory.			
Understanding, using and performing DNA sequencing and cloning techniques in a research and production setting. Includes applications of cDNA and PCR product sequencing, historical and theoretical basis of conventional and automated DNA sequencing, experimental design of sequencing methods, oligonucleotide synthesis, construction of sequencing and expression plasmids, and vectorology. Laboratory exercises will involve DNA and RNA manipulation using established protocols and computer assisted methods (bioinformatics).			
BIOL 72	HPLC: BASIC LABORATORY TECHNIQUE II	2 Units	
Prerequisites: High School biology, chemistry and algebra; laboratory experience, successful completion of BTEC 66 or equivalent experience.			
Advisory: BIOL 72 and BTEC 72 are interchangeable.			
Four hours lecture-laboratory.			
Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.			

BIOL 73	HISTOTECHNOLOGY TECHNIQUES & TISSUE IDENTIFICATION: DISEASES, FORENSICS/COLD CASES, MUSEUM CASES	1 Unit	BIOL 86	INTRODUCTION TO MICROARRAY DATA ANALYSIS	2 Units
Prerequisites: Laboratory experience (high school and/or professional). Advisory: BIOL 73 and BTEC 73 interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit. Two hours lecture-laboratory.	Introduction to basic histotechnology techniques, including fixation, processing, embedding, sectioning, and staining. Hands-on experience with microtomy techniques for thin and thick sectioning. How histotechnology aids in disease detection, including diseased museum specimens, and aids in solving Forensics/Cold Cases will be discussed.. Areas of interest include: Immunology, Vascular pathology, Osteopathology, Plastics, DNA/RNA and Mitochondria Testing. Emphasis will be placed on histotechnology as a diagnostic tool used by Pathologists/Coroners/Medical Examiners and Forensic Investigators (Federal, State and County). Safety in the laboratory and ergonomic considerations will be discussed along with an understanding of equipment maintenance.		Prerequisite: BTEC 51A and MATH 10 (or their equivalents). Advisory: BIOL 86 and BTEC 76 are interchangeable. May be repeated two times for credit. Two hours lecture, two hours computer laboratory.	This course is an introduction to the analysis of gene expression data using DNA microarrays (GeneChip® technology). Topics covered include: an overview of DNA microarrays, setting up microarray experiments, the essential algorithms, industry portals (The NetAffx® Analysis Center) and hands on experience on the GeneSpring® software. Successful completion of Cell Biology and Statistics is strongly recommended. This course is organized in modules, each of which deals with a specific topic in gene expression analysis.	
BIOL 74	OVERVIEW OF REGULATORY AFFAIRS	1 Unit	BIOL 190	DIRECTED STUDY	.5 Unit
Advisory: BIOL 74 and BTEC 74 are interchangeable. May be taken two times for credit. Two hours lecture-laboratory.	The scope and basic understanding of the regulations and skills needed in the Regulatory Affairs Profession. Overview of Food and Drug Administration (FDA) history, structure and operations; the regulatory domestic process and global perspectives. Focus will be on drugs, devices and biologics including clinical study requirements.		BIOL 190X		1 Unit
BIOL 78	POLYMERASE CHAIN REACTION: BASIC LABORATORY TECHNIQUE	1 Unit	BIOL 190Y		1.5 Units
Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra. Advisory: BIOL 78 and BTEC 68 are interchangeable. May be taken two times for credit. Two hours lecture-laboratory.	Understanding, using and performing PCR in a research or industrial setting. Includes the molecular and physical basis of the technique, mechanisms and practical (research and analytical) applications, RT-PCR, product separation and detection, thermocyclers, primers, practical experience with reagents and instrumentation for PCR, following established protocols.		BIOL 190Z		2 Units
BIOL 80	MONOCLONAL ANTIBODY PRODUCTION: HYBRIDOMA TECHNOLOGY	1 Unit	Non-degree applicable credit course. Advisory: Pass/No Pass. Any combination of BIOL 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units. One half-hour lecture and one and one-half hours laboratory. Instructor permission required. For students who desire or require additional help in attaining comprehension and competency in learning skills.		
Prerequisites: Laboratory experience (high school, college and/or professional). Advisory: BIOL 80 and BTEC 70 are interchangeable. BTEC 69, BTEC 53A, animal cell culture experience. High school chemistry, biology, algebra. May be taken two times for credit. Two hours lecture-laboratory.	Production of monoclonal antibodies by hybridoma technology. Course will include theoretical discussion of therapeutic and diagnostic uses of antibodies, sterile technique, hybridoma production, selection, and cell cloning. Students will gain practical experience of hybridoma technology by performing a cell fusion, screening and selecting positive hybridomas, and cloning cells to isolate monoclonal antibodies. A brief discussion of the ELISA (enzyme-linked immunosorbent assay) will be included.		BTEC 50	CAREERS IN BIOTECHNOLOGY/ BIOINFORMATICS	2 Units
BIOL 85	IMUNO BIOTECHNOLOGY BASIC LABORATORY THEORY	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. 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.		
Prerequisite: Laboratory experience. Advisory: BIOL 85 and BTEC 75 are interchangeable. High School biology, chemistry, and algebra recommended. May be taken two times for credit. Two hours lecture.	Understanding immunobiology in relation to biotechnology. Introduction to molecular pathways associated with the human immune system. Inflammation, apoptosis, hematopoiesis, cellular activation, cellular genetics, signal transduction, and molecular classification in relation to current research in immunology. Discussion of current research trends in biotechnology with respect to the biology of the immune system.		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: 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. Corequisite: BTEC 51A. Three hours lecture-laboratory, six hours laboratory, two 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	BTEC 58	PRINCIPLES OF BIOTECHNOLOGY/ BIOMANUFACTURING	4 Units
Prerequisites: BTEC 51AL, concurrent enrollment in, or successful completion of BTEC 52A.	Prerequisites: BTEC 51A.		Prerequisites: BTEC 51A.	Four hours lecture.	
Three hours lecture-laboratory, six hours laboratory, two 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 59	BUSINESS & REGULATORY PRACTICES IN BIOTECHNOLOGY/BIOMANUFACTURING	4 Units
Prerequisites: BTEC 52A.			Four hours lecture.		
Three hours lecture.					
Introduction to immunology. Topics to include the structure, function, and development of the immune system, regulation of the immune response, diseases of the immune system, vaccines, cancer, immunological techniques used in industry.					
BTEC 53AL	IMMUNOLOGY & VIROLOGY LABORATORY FOR BIOTECHNOLOGY	3 Units	BTEC 61	MICROBIAL BIOTECHNOLOGY	4.5 Units
Prerequisite: BTEC 52AL.			Prerequisites: BTEC 51A & 51AL.		
Corequisite: Concurrent enrollment in BTEC 53A.			Two hours lecture, two hours lecture-laboratory, four hours laboratory, one hour collaborative learning.		
Three hours lecture-laboratory, six hours laboratory, two hours collaborative learning.					
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.					
BTEC 54	BIOTECHNOLOGY EXTERNSHIP	4 Units	BTEC 62	CELL CULTURE & PROTEIN RECOVERY/BIOMANUFACTURING	6 Units
Prerequisites: Completion of BTEC 52A & 52AL.			Prerequisites: BTEC 51A.		
Corequisite: Concurrent enrollment in BTEC 53A & 53AL.			Two hours lecture, nine hours laboratory		
Twenty-four hours laboratory.					
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.					
BTEC 55	LABORATORY SAFETY	3 Units	BTEC 63	BIOTECHNOLOGY INSTRUMENTATION: QUALITY CONTROL ENGINEERING	6 Units
Three hours lecture.			Prerequisites: BTEC 51A.		
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, nine hours laboratory.		
BTEC 56X	DIRECTED STUDY	1 Unit			
BTEC 56Y		2 Units			
BTEC 56Z		3 Units			
Advisory: Pass/No Pass.					
Any combination of BTEC 56X, 56Y & 56Z may be taken for a maximum of nine units.					
Nine hours laboratory.					
Advanced research and/or project in biotechnology. The specific topic must be determined in consultation with the instructor.					
BTEC 57A	VIROLOGY FOR BIOTECHNOLOGY	3 Units			
Prerequisite: BTEC 52A.					
Co-requisite: 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 64	PROTEIN ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE	1 Unit	BTEC 69	BASIC MAMMALIAN CELL CULTURE TECHNIQUES	2 Units
Prerequisites: Laboratory experience (high school and/or professional). Advisory: BTEC 64 and BIOL 64 are interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit. Two hours lecture-laboratory.	Understanding, using, and performing electrophoretic separations and transfers in a research or industrial setting. This is to include the molecular and physical basis of specific techniques, and their practical applications. Techniques covered will include gel electrophoresis, capillary electrophoresis, isoelectric focusing, 2D gels and electrotransfers. The applications of these techniques for proteins, carbohydrates and small molecules, within research and industry will be presented. The instrumentation used for electrophoresis, isoelectric focusing, and capillary electrophoresis and practical experience with reagents and instrumentation will be emphasized. Students will follow established protocols, and demonstrate an understanding of supporting routine operations and standard protocols.		Prerequisites: Laboratory experience (high school, college and/or professional). Advisory: High school chemistry, biology, algebra recommended. May be taken two times for credit. Four hours lecture-laboratory.	Introduction to general mammalian cell culture techniques, including media preparation, sterile technique, freezing, thawing, and maintaining primary cells and cell lines. Theoretical considerations will include purpose and selection of media components, setting up and maintaining a sterile cell culture environment, and controlling contamination. Students will gain practical experience working in the laminar flow hood, counting cells, isolating cells from a primary source, and maintaining healthy adherent and suspension cells in culture. Emphasis will 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.	
BTEC 65	NUCLEIC ACIDS ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE	1 Unit	BTEC 70	MONOCLONAL ANTIBODY PRODUCTION: HYBRIDOMA TECHNOLOGY	1 Unit
Prerequisites: Laboratory experience (high school and/or professional). Advisory: BTEC 65 and BIOL 65 are interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit. Two hours lecture-laboratory.	Understanding, using, and performing electrophoretic separations and transfers in a research or industrial setting. This is to include the molecular and physical basis of specific techniques, and their practical applications. Techniques covered will include gel electrophoresis, capillary electrophoresis and electrotransfers. The applications of these techniques for proteins, and small molecules, within research and industry will be presented. The instrumentation used for electrophoresis, capillary electrophoresis, and pulsed gel electrophoresis and practical experience with reagents and instrumentation will be emphasized. Students will follow established protocols, and demonstrate an understanding of supporting routine operations and standard protocols.		Prerequisites: Laboratory experience (high school, college and/or professional). Advisory: BTEC 70 and BIOL 80 are interchangeable. BTEC 53A, 69 and animal cell culture experience. High school chemistry, biology, algebra. May be taken two times for credit. Two hours lecture-laboratory.	Production of monoclonal antibodies by hybridoma technology. Course will include theoretical discussion of therapeutic and diagnostic uses of antibodies, sterile technique, hybridoma production, selection, and cell cloning. Students will gain practical experience of hybridoma technology by performing a cell fusion, screening and selecting positive hybridomas, and cloning cells to isolate monoclonal antibodies. A brief discussion of the ELISA (enzyme-linked immunosorbent assay) will be included.	
BTEC 66	HPLC: BASIC LABORATORY TECHNIQUE	2 Units	BTEC 71	DNA SEQUENCING & BIOINFORMATICS BASIC LABORATORY TECHNIQUES	2 Units
Prerequisites: High School biology, chemistry and algebra; laboratory experience. Advisory: BTEC 66 and BIOL 66 are interchangeable. May be taken two times for credit. Four hours lecture-laboratory.	Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.		Prerequisites: Laboratory experience (high school and/or professional). Advisory: BTEC 71 and BIOL 71 are interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit. Four hours lecture-laboratory.	Understanding, using and performing DNA sequencing and cloning techniques in a research and production setting. Includes applications of cDNA and PCR product sequencing, historical and theoretical basis of conventional and automated DNA sequencing, experimental design of sequencing methods, oligonucleotide synthesis, construction of sequencing and expression plasmids, and vectorology. Laboratory exercises will involve DNA and RNA manipulation using established protocols and computer assisted methods (bioinformatics).	
BTEC 67	IMMUNOLOGICAL ASSAYS	1 Unit	BTEC 72	HPLC: BASIC LABORATORY TECHNIQUE II	2 Units
Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra. Advisory: BTEC 67 and BIOL 67 are interchangeable. May be taken two times for credit. Two hours lecture-laboratory.	Understanding and performing immunological assays. Includes the theory, molecular basis, and research/diagnostic applications of several techniques. Techniques covered will include, direct, indirect, sandwich, and quantitative ELISAs, and Western blotting. Practical experience with reagents (selection of conjugated antibodies, detection systems) and instrumentation (microtiter plate reader, polyacrylamide gel electrophoresis apparatus, transfer apparatus) will be emphasized.		Prerequisites: High School biology, chemistry and algebra; laboratory experience, successful completion of BTEC 66 or equivalent experience. Advisory: BTEC 72 and BIOL 72 are interchangeable. Four hours lecture-laboratory.	Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.	
BTEC 68	POLYMERASE CHAIN REACTION: BASIC LABORATORY TECHNIQUE	1 Unit	BTEC 73	HISTOTECHNOLOGY TECHNIQUES & TISSUE IDENTIFICATION: DISEASES, FORENSICS/COLD CASES, MUSEUM CASES	1 Unit
Prerequisites: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra. Advisory: BTEC 68 and BIOL 78 are interchangeable. May be taken two times for credit. Two hours lecture-laboratory.	Understanding, using and performing PCR in a research or industrial setting. Includes the molecular and physical basis of the technique, mechanisms and practical (research and analytical) applications, RT-PCR, product separation and detection, thermocyclers, primers, practical experience with reagents and instrumentation for PCR, following established protocols.		Prerequisites: Laboratory experience (high school and/or professional). Advisory: BTEC 73 and BIOL 73 are interchangeable. High school biology, chemistry, algebra recommended. May be taken two times for credit. Two hours lecture-laboratory.	Introduction to basic histotechnology techniques, including fixation, processing, embedding, sectioning, and staining. Hands-on experience with microtomy techniques for thin and thick sectioning. How histotechnology aids in disease detection, including diseased museum specimens, and aids in solving Forensics/Cold Cases will be discussed. Areas of interest include: Immunology, Vascular pathology, Osteopathology, Plastics, DNA/RNA and Mitochondria Testing. Emphasis will be placed on histotechnology as a diagnostic tool used by Pathologists/Coroners/Medical Examiners and Forensic Investigators (Federal, State and County). Safety in the laboratory and ergonomic considerations will be discussed along with an understanding of equipment maintenance.	

BTEC 74	OVERVIEW OF REGULATORY AFFAIRS	1 Unit	BUSI 22	PRINCIPLES OF BUSINESS	4 Units
Advisory: BTEC 74 and BIOL 74 are interchangeable.			Four hours lecture.		
May be taken two times for credit.			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.		
Two hours lecture-laboratory.					
The scope and basic understanding of the regulations and skills needed in the Regulatory Affairs Profession. Overview of Food and Drug Administration (FDA) history, structure and operations; the regulatory domestic process and global perspectives. Focus will be on drugs, devices and biologics including clinical study requirements.					
BTEC 75	IMMUNOBIO TECHNOLOGY: BASIC LABORATORY THEORY	2 Units	BUSI 34	HONORS INSTITUTE SEMINAR IN BUSINESS	1 Unit
Prerequisite: Laboratory experience.			Formerly: BUSI 54		
Advisory: BTEC 75 and BIOL 75 are interchangeable. High School biology, chemistry, and algebra recommended.			Prerequisite: Membership in the Honors Institute.		
May be taken two times for credit.			One hour lecture.		
Two hours lecture.			Seminar in directed readings, discussions, and projects in business. Specific topics to be determined by the instructor.		
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 76	INTRODUCTION TO MICROARRAY DATA ANALYSIS	2 Units	BUSI 35	DEPARTMENT OF HONORS PROJECT IN BUSINESS	1 Unit
Prerequisite: BTEC 51A and MATH 10 (or their equivalents).			Formerly: BUSI 55		
Advisory: BTEC 76 and BIOL 86 are interchangeable.			May be taken six times for credit.		
May be repeated two times for credit.			One hour lecture.		
Two hours lecture, two hours computer laboratory.			Seminar in business readings, research, critical techniques and practice. Specific topics vary.		
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 190	DIRECTED STUDY	.5 Unit	BUSI 53	SURVEY OF INTERNATIONAL BUSINESS	4 Units
BTEC 190X		1 Unit	Advisory: Not open to students with credit in BIS 53.		
BTEC 190Y		1.5 Units	Four hours lecture.		
BTEC 190Z		2 Units	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.		
Advisory: Pass/No Pass					
Any combination of BTEC 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.					
One half-hour lecture, one and one-half hours laboratory.					
For students who desire or require additional help in attaining comprehension and competency in learning skills.					
BUSINESS					
Business & Social Sciences Division		(650) 949-7322	BUSI 57	PRINCIPLES OF ADVERTISING	4 Units
		www.foothill.edu/bss/	Advisory: Not open to students with credit in ADVT 57.		
			Four hours lecture.		
BUSI 18	BUSINESS LAW I	4 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.		
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 58	SURVEY OF INTERNATIONAL MARKETING	4 Units
Four hours lecture.			Advisory: Not open to students with credit in BIS 58.		
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.			Four hours lecture.		
			Contemporary developments of international marketing functions, concepts and business activities that determine global customer demand for products and services.		
BUSI 59	PRINCIPLES OF MARKETING	4 Units			
Four hours lecture.					
Contemporary marketing developments and applications relative to business activities that determine customer demand for products and services. Focus on market planning strategy, determining the right product, price, distribution and promotion elements and evaluating the results of effective marketing decision-making from both a marketer's and a consumer's perspective.					
BUSI 61	INVESTMENT FUNDAMENTALS	3 Units	BUSI 62	PRINCIPLES OF SALESMANSHIP	3 Units
Three hours lecture.			Three hours lecture.		
Introduction to securities investment characteristics and rights. Portfolio building. Stock exchanges and over-the-counter markets. Investment banking and investment trusts. Financial statements, stock choice and selection, investment methods, technical market and stock analysis, financial planning, bond portfolios.			The principles and techniques of selling ideas, products, services. Focus on persuasive activities, buying behavior, communication, ethics. Combines an emphasis on the art of selling with providing effective customer service.		

BUSI 64	SPECIAL PROJECTS IN BUSINESS	1 Unit	BUSI 133A	STARTING A SMALL BUSINESS	1 Unit
BUSI 64X		2 Units	Advisory: Pass/No Pass.		
BUSI 64Y		3 Units	One hour lecture.		
BUSI 64Z		4 Units	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.		
Any combination of BUSI 64, 64X, 64Y & 64Z may be taken for a maximum of six units.					
One hour lecture.					
Advanced readings, research, and/or project in business. Specific topics determined in consultation with instructor.					
BUSI 92	FINANCIAL PLANNING PRACTICES	4 Units	BUSI 133E	SMALL BUSINESS MARKETING, RESEARCH & PLANNING	1 Unit
Four hours lecture.			Advisory: Pass/No Pass.		
Examination of financial and retirement planning, mutual funds, real estate, bonds, cash equivalents, gold, stock, tax-free income, sources of investment help, advisory services.			One hour lecture.		
BUSI 95	SMALL BUSINESS MANAGEMENT	3 Units	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.		
Three hours lecture.					
Creating, managing and profiting from a small business. For potential or present entrepreneurs. Emphasis on organization and operation of a small business, including problems of raising capital, establishing an effective marketing plan, and directing and motivating employees.					
BUSI 95E	SMALL BUSINESS EXPORT & IMPORT	3 Units	B T 51A	PROFESSIONAL KEYBOARDING I (BEGINNING)	1 Unit
Advisory: Not open to students with credit in BIS 95E.			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.		
Three hours lecture.			Two hours lecture-laboratory.		
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.			Develop and master correct keyboarding skills and techniques on the microcomputer using the touch system.		
BUSI 97	MANAGEMENT SEMINAR	.5 Unit	B T 51B	PROFESSIONAL KEYBOARDING II (BASIC FORMATTING)	1 Unit
BUSI 97X		1 Unit	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.		
BUSI 97Y		1.5 Units	Two hours lecture-laboratory.		
BUSI 97Z		3 Units	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.		
Advisory: Pass/No Pass.			B T 51C	PROOFREADING I	1 Unit
Any combination of BUSI 97, 97X, 97Y & 97Z, may be taken for a maximum of 6 units.			Two hours lecture-laboratory.		
One hour lecture for each unit of credit.			Development of proofreading and editing skills in preparation for office occupations. Hands-on experience with proofreading software.		
BUSI 102	PRACTICAL PERSONAL FINANCE	1 Unit	B T 59	INTEGRATED BUSINESS COMMUNICATION	5 Units
Two hours lecture-laboratory.			Formerly: B T 59A & BT 59B		
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.			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 59B.		
BUSI 120	DISPUTE RESOLUTION & MEDIATION	3.5 Units	Two hours lecture, two hours lecture-laboratory, four hours terminal time.		
Non-degree applicable credit course.			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.		
BUSI 131B	HOW TO START A HOME-BASED BUSINESS	.5 Unit			
Advisory: Pass/No Pass.					
One-half hour lecture.					
Exploration of unique needs for small businesses started and operated from the home. Topics covered include information about licenses, taxes, resolution of lifestyle and image.					

BUSINESS OFFICE TECHNOLOGY

Computers, Technology & Information Systems Division (650) 949-7236
www.foothill.edu/ctis/

B T 51A	PROFESSIONAL KEYBOARDING I (BEGINNING)	1 Unit			
Advisory: Students who have had previous training in typewriting or keyboarding and can keyboard at least 30 words a minute should enroll in BT 51B.					
Two hours lecture-laboratory.					
Develop and master correct keyboarding skills and techniques on the microcomputer using the touch system.					
B T 51B	PROFESSIONAL KEYBOARDING II (BASIC FORMATTING)	1 Unit			
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.					
Two hours lecture-laboratory.					
Continued development of keyboarding competencies; emphasis on increasing speed, improving accuracy, learning word processing functions, developing formatting skills, applying communication skills, and learning document production skills.					
B T 51C	PROOFREADING I	1 Unit			
Two hours lecture-laboratory.					
Development of proofreading and editing skills in preparation for office occupations. Hands-on experience with proofreading software.					
B T 59	INTEGRATED BUSINESS COMMUNICATION	5 Units			
Formerly: B T 59A & BT 59B					
Advisory: Satisfactory completion of ENGL 110 or ESL 25, or English Placement Test level of ENGL 1A or ESL 26. Not open to students enrolled previously in BT 59A and 59B.					
Two hours lecture, two hours lecture-laboratory, four hours terminal time.					
Integrates the review and refinement of basic English communication in the business setting. Includes business focused content, practice in grammar, punctuation, word usage skills and communication techniques as well as research and techniques for larger written documents and presentations. Skills developed will be practiced using business computer applications in Word, PowerPoint and Excel.					

CAREER LIFE PLANNING

Counseling Division (650) 949-7296
www.foothill.edu/

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	CRLP 83	PREPARATION FOR CAREERS IN THE ARTS	1 Unit
Advisory: Not open to students with credit in CRLP 76 or 76A.			One hour lecture, one hour computer time.		
Three hours lecture.			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 71	EXPLORING CAREER FIELDS	1 Unit	CRLP 84	PREPARATION FOR CAREERS IN THE SCIENCES	1 Unit
Advisory: Pass/No Pass. May not be concurrently enrolled in CRLP 70.			One hour lecture, one hour computer time.		
May be taken three times for credit.			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 72	INTERVIEWING FOR CAREER INFORMATION IN THE COMMUNITY	1 Unit	CRLP 85	PREPARATION FOR ENGINEERING & TECHNOLOGY CAREERS	1 Unit
Advisory: Pass/No Pass.			One hour lecture, one hour computer time.		
May be taken three times for credit.			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 73	EFFECTIVE RESUME WRITING	1 Unit	CRLP 86	PREPARATION FOR BUSINESS CAREERS	1 Unit
Advisory: Pass/No Pass.			One hour lecture, one hour computer time.		
May be taken three times for credit.			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 74	SUCCESSFUL INTERVIEWING TECHNIQUES	1 Unit	CRLP 87	PREPARATION FOR CAREERS IN SECURITY & SAFETY	1 Unit
Advisory: Pass/No Pass.			One hour lecture, one hour computer time.		
May be taken three times for credit.			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 78	JOB SEARCH STRATEGIES	1 Unit	CRLP 90	HIGH-TECH CAREER EXPLORATION ON THE INTERNET	1 Unit
Advisory: CRLP 73 & 74.			One hour lecture, one hour computer time.		
May be taken three times for credit.			Advisory: Familiarity with general computing and the Internet. Not open to students with credit in CAST 50.		
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.			Two hours lecture-laboratory, one hour terminal time.		
CRLP 81	PREPARATION FOR SOCIAL SCIENCE CAREERS	1 Unit	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.		
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 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 220A	PREPARATION FOR RADIOLOGIC TECHNOLOGY	1 Unit	CHEM 12C	ORGANIC CHEMISTRY	6 Units
Advisory: Pass/No Pass.			Prerequisite: CHEM 12B.		
One hour lecture.			Four hours lecture, two hours lecture-laboratory, four hours laboratory.		
Designed to prepare students to apply to the Radiologic Technology Program.			A continuation of CHEM 12B with emphasis on advanced topics in organic reactions and synthesis, physical methods of structure determination, bio-organic chemistry, and an introduction to biochemistry.		
CHEMISTRY					
Physical Sciences, Mathematics & Engineering Division	(650) 949-7259				
	www.foothill.edu/psme/				
CHEM 1A	GENERAL CHEMISTRY	5 Units	CHEM 25	FUNDAMENTALS OF CHEMISTRY	5 Units
Prerequisites: Satisfactory score (22) on the chemistry placement test or CHEM 25.			Prerequisite: Satisfactory score on the mathematics placement test or MATH 105.		
Satisfactory score on the mathematics placement test or MATH 104 or 105.			Advisory: Concurrent enrollment in ESL 25 or ENGL 100 level.		
Advisory: ENGL 100 or ESL 25 recommended.			Four hours lecture, one hour lecture-laboratory, two hours laboratory.		
Three hours lecture, two hours lecture-laboratory, four hours laboratory.			Intended for students who wish to meet general education requirements in physical science or need background preparation for CHEM 1A. The course includes basic chemical laboratory techniques and methods, a survey of important chemical principles with emphasis on problem solving, and a description of the elements and their compounds.		
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, CAN CHEM 2 = CHEM 1A+1B, CAN CHEM SEQ A = CHEM 1A+1B+1C]					
CHEM 1B	GENERAL CHEMISTRY	5 Units	CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY	5 Units
Prerequisite: CHEM 1A.			Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.		
Three hours lecture, two hours lecture-laboratory, four hours laboratory.			Four hours lecture, one hour lecture-laboratory, two 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 2 = CHEM 1A+1B, CAN CHEM 3, CAN CHEM SEQ A = CHEM 1A+1B+1C, CAN CHEM 4 = CHEM 1B+1C]			This is an introductory course covering basic principles of chemistry more descriptive than quantitative in emphasis. Topics include atomic structure, trends in the periodic table, the three states of matter (gas, liquid and solid), energy, chemical bonding in ionic and molecular compounds, nomenclature, measurement and the metric system, chemical reactions and equations, solutions, acids, bases, salts and electrolyte systems. This chemistry course is primarily for students entering the Allied Health field including: nursing, veterinary technology, dental assistant, dental hygiene, biotechnology, primary care associate, radiation therapy technology, radiological technology, respiratory therapy, and pharmaceutical technology. [CAN CHEM 6, CAN CHEM SEQ B = CHEM 30A+30B]		
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	5 Units	CHEM 30B	SURVEY OF ORGANIC & BIOCHEMISTRY	5 Units
Prerequisite: CHEM 1B.			Prerequisite: CHEM 30A.		
Three hours lecture, two hours lecture-laboratory, four hours laboratory.			Four hours lecture, one hour lecture-laboratory, two hours laboratory.		
Aqueous ionic equilibria of buffers and solubility product constants; electrochemistry including the thermodynamics of voltaic cells; introduction to coordination chemistry and bonding theory; nuclear chemistry with emphasis on applications; and an introduction to organic chemistry. Laboratory parallels lecture topics with a brief introduction to qualitative inorganic analysis. [CAN CHEM 4 = CHEM 1B+1C, CAN CHEM 5, CAN CHEM SEQ A = CHEM 1A+1B+1C]			This is an introductory course covering basic principles of organic chemistry and biological chemistry. Topics include organic chemistry nomenclature, functional groups, and an introduction to structure and properties of carbohydrates, lipids, nucleic acids, proteins and enzymes. An overview of metabolism will also be given. This chemistry course is primarily for students entering the allied health field including: nursing, dental hygiene, and biotechnology. [CAN CHEM 8, CAN CHEM SEQ B = CHEM 30A+30B]		
CHEM 10	INTRODUCTORY CHEMISTRY	5 Units	CHEM 34	HONORS INSTITUTE SEMINAR IN CHEMISTRY	1 Unit
Corequisite: Satisfactory score on the mathematics placement test or concurrent enrollment in MATH 105.			Prerequisite: Membership in the Honors Institute.		
Four hours lecture, two hours laboratory, one hour terminal time.			One hour lecture.		
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.			A seminar in directed readings, discussions and projects in chemistry. Specific topics to be determined by the instructor.		
CHEM 12A	ORGANIC CHEMISTRY	6 Units	CHEM 36	SPECIAL PROJECTS IN CHEMISTRY	1 Unit
Prerequisite: CHEM 1C.			CHEM 36X		2 Units
Four hours lecture, two hours lecture-laboratory, four hours laboratory.			CHEM 36Y		3 Units
The chemistry of the compounds of carbon including biochemicals. Emphasis on principles involving structure-reactivity relationships, methods of synthesis, molecular characterization, reactivity and physical properties. For biological science, chemistry, chemical engineering, pre-professional students in dentistry, medicine, pharmacy, veterinary medicine and other interested students who have mastered the prerequisites.			Prerequisite: Four quarters of college-level chemistry.		
			Any combination of CHEM 36, 36X & 36Y may be taken for a maximum of six units.		
CHEM 12B	ORGANIC CHEMISTRY	6 Units	Three hours laboratory.		
Prerequisite: CHEM 12A.			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.		
Four hours lecture, two hours lecture-laboratory, four hours laboratory.					
A continuation of CHEM 12A with emphasis on advanced topics in organic reactions and synthesis, conjugated systems, spectroscopy and carbonyl compounds.					

CHEM 190	DIRECTED STUDY	.5 Unit
CHEM 190X		1 Unit
CHEM 190Y		1.5 Units
CHEM 190Z		2 Units

Advisory: Pass/No Pass.

Any combination of CHEM 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.

One half-hour lecture, one and one-half hours laboratory.

For students who desire or require additional help in attaining comprehension and competency in learning skills.

CHILD DEVELOPMENT

Business & Social Sciences Division (650) 949-7322
www.foothill.edu/bss/

CHLD 11	AFFIRMING DIVERSITY IN EDUCATION	4 Units
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Advisory: Eligibility for ENGL 1A or ESL 26 recommended.

Four hours lecture.

Analysis of gender, race, culture, abilities/disabilities and social class from the child development perspective with emphasis on theory and research. Provides a conceptual framework for children's cognitive, social and emotional responses to diversity. Serves as a basis to develop a rationale for a culturally responsive/anti-bias education.

CHLD 50	SCHOOL-AGE CHILD (5-12): BEHAVIOR & DEVELOPMENT	3 Units
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Three hours lecture.

Introduction to human growth and development from ages five to twelve, covering physical, cognitive, social and emotional development of the child. Discussions of current issues facing school-age children in contemporary society. Designed for those who work or desire to work with school-age children in after school programs, in elementary schools (teachers and aides) and the home (parents or caregivers).

CHLD 50A	INFANT/TODDLER DEVELOPMENT	3 Units
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Three hours lecture.

Human growth and development from birth to age three years; discussion of concepts, characteristics, stages, and timing of physical, social, emotional, intellectual, and language development. Investigation of developmental norms, recognition of individual differences, child theory in action, and guides for working and living with children.

CHLD 50B	PRESCHOOL YEARS: 3 to 6	3 Units
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Three hours lecture.

Human growth and development from three years to six years. A discussion of the developmental stages including: physical, social, emotional, and intellectual. Peer relationships, pro-social behavior and knowing and living with the preschool child.

CHLD 53NP	ATYPICAL INFANT DEVELOPMENT	3 Units
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Three hour lecture.

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.

CHLD 55	CHILD GROWTH & DEVELOPMENT	4 Units
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Three hours lecture, three hours laboratory.

Development of the child from prenatal life through adolescence. In-depth study of the physical, cognitive, language, and social-emotional development of children from infancy through adolescence. Observation of children required. [CAN FCS 14]

CHLD 56	OBSERVATION TECHNIQUES	3 Units
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Advisory: CHLD 50 or 50A or 50B, or PSYC 14.

Two hours lecture, three hours laboratory.

Observational techniques, analysis, and use of observational data for purposes of understanding children's developmental needs and appropriate curriculum development.

CHLD 56N	INTRODUCTION TO CHILD DEVELOPMENT	4 Units
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Four hours lecture.

Introduction to the field of child development. Curriculum planning and supervisory activities for children in early childhood programs. Focus on developmental issues in the teaching-learning environment, including guidelines for interaction and teaching techniques.

CHLD 59	WORKING WITH SCHOOL-AGE CHILDREN PRINCIPLES & PRACTICUM	3 Units
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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
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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
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Advisory: Pass/No Pass.

May be taken six times for credit.

One hour lecture.

Focus on helping parents build a loving and responsible relationship with their children, and develop skills to handle conflicts creatively. Topics include helping children deal with their feelings, expressing anger without being hurtful, engaging children's cooperation without nagging, setting firm limits, and negotiating win-win solutions.

CHLD 68	TOPICS/PROJECTS IN CHILD DEVELOPMENT	1 Unit
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CHLD 68X **2 Units** |

CHLD 68Y **3 Units** |

CHLD 68Z **4 Units** |

Any combination of CHLD 68, 68X, 68Y & 68Z may be taken a maximum of six times for credit.

One hour lecture.

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
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Two hours lecture-laboratory.

Introduction to a variety of creative art activities for the preschool child. Tactile arts including paint, clay, chalk, playdough, collage and crayons.

CHLD 72	LANGUAGE DEVELOPMENT	3 Units
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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
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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 74	SCIENCE & NATURE	1 Unit
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One hour lecture.

Science for children; suggestions for activities involving plants, animals, and the physical properties of the environment; emphasis on making science part of the everyday experience.

CHLD 79	CARING FOR INFANTS & TODDLERS IN GROUPS	3 Units	CHLD 90B	ADMINISTRATION & SUPERVISION: DESIGNING & STARTING CHILD CARE FACILITIES	4 Units
Three hours lecture.					
Overview of infant and toddler development. The role adults play in responsive infant and toddler caregiving and the essential elements of a quality infant/toddler environment. Individualized routines as appropriate curriculum. Forming partnerships with parents.					
CHLD 82					
	PLANNING CREATIVE DRAMATICS	1 Unit	CHLD 90C	ADMINISTRATION & SUPERVISION: PROGRAM OPERATION	4 Units
One hour lecture.					
An introduction to creative dramatics for the child; dramatic play, puppetry, role playing, acting out stories; how to implement creative dramatics. The emergence of creativity, imagining, and empathizing with others. Techniques for promoting children's sensitivity to, and use of, various dramatic art forms. The role of the parent and teacher in facilitating children's explorations.					
CHLD 85	LITERACY & LITERATURE IN PRESCHOOL EDUCATION	3 Units	CHLD 91	ADMINISTRATION & SUPERVISION: ADULT SUPERVISION	4 Units
Three hours lecture.					
Introduction to literature for children from birth through age 5. Emphasis on selection, evaluation and classroom use of literature to support literacy in children.					
CHLD 86A	MENTORING & PROFESSIONAL DEVELOPMENT OF EARLY CHILDHOOD PROFESSIONALS	4 Units	CHLD 190	DIRECTED STUDY	.5 Unit
Advisories: CHLD 55, 88 and a minimum of three quarter units in Child Development courses.			CHLD 190X		1 Unit
Four hours lecture.			CHLD 190Y		1.5 Units
Focus on preparing teachers for the role of mentoring student teachers, assistant teachers, parents, and volunteers in early childhood settings. Emphasis is on the role of teachers supervising other adults while simultaneously addressing the classroom needs of the children and parents in the program. Development will focus on the professional self, portfolio development, documentation of the teachers, work with children.			CHLD 190Z		2 Units
CHLD 86B	PRACTICUM STUDENT TEACHING IN AN EARLY CHILDHOOD PROGRAM	5 Units	Advisory: Pass/No Pass.		
Advisories: CHLD 55, 88 and a minimum of three quarter units in Child Development courses.			Any combination of CHLD 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.		
Two hours lecture, 10 hours laboratory.			One-half hour lecture, one and one-half hours laboratory.		
Focus on students preparing to work in an early childhood program. Integrating and applying knowledge and understanding of the process of child growth and development to group settings with young children. Incorporates the role of the teacher as it relates to observing, interacting, with children and families, planning and implementing developmentally appropriate curriculum, and participating in staff meetings.			For students who desire or require additional help in attaining comprehension and competency in learning skills.		
CHLD 88	CHILD, FAMILY & COMMUNITY	4 Units			
Four hours lecture.					
Child's relationship to the family and community. Interaction of family members and the community as they cope with problems that affect the child. How family life practices and attitudes differ among cultures. Major child development theories and how they relate to cross-cultural perspectives of the child in society.					
CHLD 88B	POSITIVE BEHAVIOR MANAGEMENT	1 Unit	CHIN 1	ELEMENTARY CHINESE I	5 Units
One hour lecture.			Five hours lecture, two hours laboratory.		
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.			Intensive oral practice of basic, everyday language functions. Written practice to further understanding of the underlying grammatical and syntactical structures. Introduction to the four tone system of Chinese pronunciation and characters. Language laboratory practice. [CAN CHIN SEQ A = CHIN 1+2+3]		
CHLD 89	CURRICULUM FOR THE PRESCHOOL CLASSROOM	3 Units	CHIN 2	ELEMENTARY CHINESE II	5 Units
Advisory: CHLD 50B.			Prerequisite: CHIN 1 or one year of high school Chinese.		
Three hours lecture.			Five hours lecture, two hours laboratory.		
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.			Intensive oral and written practices broadening the functions presented in CHIN 1. Further development of the use of the four tone system of Chinese pronunciation, as well as basic grammatical construct and sentence structures. Language laboratory practice. [CAN CHIN SEQ A = CHIN 1+2+3]		
CHIN 3	ELEMENTARY CHINESE III	5 Units	CHIN 3	ELEMENTARY CHINESE III	5 Units
Prerequisite: CHIN 2 or two years of high school Chinese.			Prerequisite: CHIN 2 or two years of high school Chinese.		
Five hours lecture, two hours laboratory.			Continuation of CHIN 2. Further development of listening, speaking, reading and writing skills. Intensive oral practice of the four tone system pronunciation in everyday language situations. Oral and written practice of Chinese grammatical constructions and sentence structures. Language laboratory practice. [CAN CHIN SEQ A = CHIN 1+2+3]		

CHIN 4	INTERMEDIATE CHINESE	5 Units	CHIN 14B	ADVANCED CONVERSATION II	3 Units
Prerequisite: CHIN 3 or three years of high school Chinese.			Prerequisite: CHIN 14A.		
Five hours lecture, one hour laboratory.			Three 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. [CAN CHIN SEQ B = CHIN 4+5+6]			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 5	INTERMEDIATE CHINESE	5 Units	CHIN 25A	ADVANCED COMPOSITION & READING I	4 Units
Prerequisite: CHIN 4 or four years of high school Chinese.			Prerequisite: CHIN 6.		
Five hours lecture, one hour laboratory.			Four hours lecture.		
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. [CAN CHIN SEQ B = CHIN 4+5+6]			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 6	INTERMEDIATE CHINESE	5 Units	CHIN 25B	ADVANCED COMPOSITION & READING II	4 Units
Prerequisite: CHIN 5.			Prerequisite: CHIN 25A.		
Five hours lecture, one hour laboratory.			Four hours lecture.		
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. [CAN CHIN SEQ B = CHIN 4+5+6]			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 13A	INTERMEDIATE CONVERSATION I	3 Units	CHIN 34	HONORS INSTITUTE SEMINAR IN CHINESE	1 Unit
Prerequisite: CHIN 3.			Prerequisite: Membership in the Honors Institute.		
Three hours lecture, one hour laboratory.			One hour lecture.		
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.			A seminar in directed readings, discussions, and projects in Chinese. Specific topics to be determined by the instructor.		
CHIN 13B	INTERMEDIATE CONVERSATION II	3 Units	CHIN 36	SPECIAL PROJECTS IN CHINESE	1 Unit
Prerequisite: CHIN 13A.			CHIN 36X		2 Units
Three hours lecture, one hour laboratory.			CHIN 36Y		3 Units
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 36Z		4 Units
Prerequisite: CHIN 13B.			Prerequisite: CHIN 6.		
Three hours lecture, one hour laboratory.			Any combination of CHIN 36, 36X, 36Y & 36Z may be taken for a maximum of 24 units.		
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.			One hour lecture.		
CHIN 14A	ADVANCED CONVERSATION I	3 Units	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.		
Prerequisite: CHIN 13B.			CHIN 190	DIRECTED STUDY LECTURE	.5 Unit
Three hours lecture, one hour laboratory.			CHIN 190X		1 Unit
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 190Y		1.5 Units
			CHIN 190Z		2 Units
			Advisory: Pass/No Pass.		
			Any combination of CHIN 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.		
			One-half hour lecture of individualized instruction for each half unit.		
			For students who desire or require additional help in attaining comprehension and competency in learning skills.		

COMMUNICATION STUDIES

Fine Arts & Communication Division (650) 949-7347
www.foothill.edu/fa/speechcomm.html

COMM 1A PUBLIC SPEAKING 4.5 Units

Formerly: SPCH 1A

Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.

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.

COMM 1B ARGUMENTATION & PERSUASION 4.5 Units

Formerly: SPCH 1B

Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.

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.

COMM 2 INTERPERSONAL COMMUNICATION 4.5 Units

Formerly: SPCH 2

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.

COMM 3 FUNDAMENTALS OF ORAL COMMUNICATION 4.5 Units

Formerly: SPCH 3

Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.

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.

COMM 4 GROUP DISCUSSION 4.5 Units

Formerly: SPCH 4

Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.

Four hours lecture, one and one-half hours laboratory.

Understanding of the principles of group interaction and decision making. Participation in discussion groups designed to share information, solve problems and reach consensus.

COMM 6 THE RHETORIC OF POLITICAL SPEECH 4.5 Units

Formerly: SPCH 6

Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.

Four hours lecture, one and one-half hours laboratory.

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.

COMM 10 GENDER, COMMUNICATION & CULTURE 4.5 Units

Formerly: SPCH 10

Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.

Four hours lecture, one and one-half hours laboratory.

A comparative and integrative study of the interactive relationship between communication, gender, and culture in American society. Emphasis on the multiple ways communication in interpersonal relationships, educational institutions, organizations, media, and society in general creates and perpetuates gender roles. Analysis of gendered histories, traditions, and practices which normalize certain expectations, values, meanings, and patterns of behavior across cultural/racial lines (Native Americans, European Americans, African Americans, Asian Americans, Gays, Lesbians, Bi-sexual, and Transgendered peoples).

COMM 12 INTERCULTURAL COMMUNICATION

4.5 Units

Formerly: SPCH 12

Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.

Four hours lecture, one and one-half hours laboratory.

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.

COMM 24 READERS' THEATRE

4.5 Units

Formerly: SPCH 24

Advisory: Not open to students with credit in DRAM 24.

May be taken two times for credit.

Four hours lecture, one and one-half hours laboratory.

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.

COMM 30 ORAL INTERPRETATION OF LITERATURE

4.5 Units

Formerly: SPCH 30

Four hours lecture, one and one-half hours laboratory.

Introductory techniques of selection, comprehension, oral interpretation and presentation of prose, poetry, and dramatic literature, exploring diverse cultural and ethnic backgrounds.

COMM 34 HONORS INSTITUTE SEMINAR IN SPEECH

1 Unit

Formerly: SPCH 34

Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions, and projects in speech. Specific topics to be determined by the instructor.

COMM 35 DEPARTMENT HONORS

1 Unit

COMM 35X PROJECTS IN SPEECH

2 Units

COMM 35Y

3 Units

COMM 35Z

4 Units

Formerly: SPCH 35

Advisory: SPCH 1A or 4.

Any combination of COMM 35, 35X, 35Y & 35Z may be taken for a maximum of eight units.

One hour lecture for each unit of credit.

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.

COMM 36 SPECIAL PROJECTS IN SPEECH

1 Unit

COMM 36X

2 Units

COMM 36Y

3 Units

COMM 36Z

4 Units

Formerly: SPCH 36

Advisory: SPCH 1A or 4.

Any combination of COMM 36, 36X, 36Y & 36Z may be taken for a maximum of eight units.

One hour lecture for each unit of credit.

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.

COMM 46 VOICE & DICTION

4.5 Units

Formerly: SPCH 46

Advisory: Not open to students with credit in DRAM 46.

Four hours lecture, one and one-half hours laboratory.

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.

COMM 53	FORENSIC SPEECH/DEBATE	4.5 Units	CIS 12A	FUNDAMENTALS OF VISUAL BASIC.NET PROGRAMMING	5 Units		
<i>Formerly SPCH 53.</i>							
<i>Advisory: SPCH 1A and/or 1B.</i>							
Four hours lecture, one and one-half hours laboratory.							
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.							
COMM 54	INTERCOLLEGIATE SPEECH/DEBATE	1.5 Units	CIS 12C	DESIGNING WITH VISUAL BASIC	5 Units		
COMM 54X		2.5 Units	<i>Advisory: CIS 12A or equivalent.</i>				
COMM 54Y		3.5 Units	Four hours lecture, four hours terminal time.				
COMM 54Z		4.5 Units	Introduction to computer programming using the Visual Basic.NET Language; provides an overview of computer organization and an introduction to software engineering. Topics include methodologies for program design, development, style, testing and documentation; algorithms, control structures, sub-programs, database interfacing and elementary data structures. Includes an introduction to ADO.NET database integration. [CAN CSCI 6]				
<i>Formerly: SPCH 54</i>							
<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.</i>							
Any combination of COMM 54, 54X, 54Y & 54Z may be taken for a maximum of six times for credit.							
One hour lecture, one and one-half hours laboratory.							
Training in principles of debate and forensic speech; preparation for participation in competitive debate, extemporaneous speaking and oratory. Students required to attend and participate in intercollegiate forensic tournaments.							
COMM 55	PROFESSIONAL & CAREER COMMUNICATION	4.5 Units	CIS 12D	ADVANCED VISUAL BASIC.NET: FOR WINDOWS-BASED APPLICATIONS	5 Units		
<i>Formerly: SPCH 55</i>							
<i>Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent.</i>							
Four hours lecture, one and one-half hours laboratory.							
Introduction to communication in organizational and career contexts. Interviewing, interpersonal and intercultural communication, group interactions, and professional presentations. Application of theories and skills through critically evaluated exercises.							
COMM 105	SPEAKING WITH CONFIDENCE	4.5 Units	CIS 12W	DEVELOPING WEB APPLICATIONS WITH VB.NET	5 Units		
<i>Formerly: SPCH 105</i>							
Four hours lecture, one and one-half hours laboratory.							
Emphasizes experiences in verbal communications specifically designed to reduce speaking anxiety/communication reticence. Development of practical skills in academic, social and work/professional situations where success is largely dependent on clear, effective communication.							
COMM 190	DIRECTED STUDY	.5 Unit	CIS 15A	COMPUTER SCIENCE I: C++	5 Units		
COMM 190X		1 Unit	<i>Advisory: CIS 12A.</i>				
COMM 190Y		1.5 Units	Four hours lecture, four hours terminal time.				
COMM 190Z		2 Units	Developing Web Applications using the VB.NET language. Visual Basic.NET is one of the latest programming languages from Microsoft designed to support the Internet solutions. Using the Internet related classes in the .NET Framework, VB.NET provides a powerful set of tools both for constructing Web Forms applications using ASP.NET as well as XML Web Services. This Course, which assumes a basic understanding of VB or C# programming, covers all of the key elements of building Web Applications and is targeted at preparing students for the Microsoft Web Applications Certification Exam.				
<i>Formerly: SPCH 190</i>							
<i>Advisory: Pass/No Pass.</i>							
Any combination of COMM 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.							
One-half hour lecture, one and one-half hours laboratory.							
For students who desire or require additional help in attaining comprehension and competency in learning skills.							
COMPUTER INFORMATION SYSTEMS							
Computers, Technology & Information Systems Division (650) 949-7236							
www.foothill.edu/ctis/							
CIS 1	INTRODUCTION TO COMPUTER SCIENCE	5 Units	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	<i>Advisory: CIS 15A.</i>				
<i>Advisory: MATH 101; ENGL 1A or ESL 26 recommended.</i>			Four hours lecture, four hours terminal time.				
Two hours lecture, two hours lecture-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]							

CIS 15D	DESIGNING WITH C++ CLASSES	5 Units	CIS 19W	DEVELOPING WEB APPLICATIONS	5 Units
Advisory: CIS 15P or CIS 15B.			Advisory: CIS 19A.		
Four hours lecture, four hours terminal time.			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.			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 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.		
CIS 15P	C++ FOR PROGRAMMERS	5 Units	CIS 25A	PROGRAMMING IN C	5 Units
Advisory: CIS 25A, CIS 27B or equivalent C or JAVA programming class.			Advisory: Knowledge of a high-level programming language.		
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.		
Five 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.		
Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees. [CAN CSCI 26 = CIS 18 or MATH 22]					
CIS 19A	INTRODUCTION TO PROGRAMMING WITH C#	5 Units	CIS 27A	COMPUTER SCIENCE I: JAVA	5 Units
Advisory: CIS 12A or 15A or 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 15A or 27A]		
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 19P	ADVANCED PROGRAMMING WITH C#	5 Units	CIS 27C	COMPUTER SCIENCE III: DATA STRUCTURES & ALGORITHMS IN JAVA	5 Units
Advisory: CIS 12A or 15A or 19A or 27A.			Advisory: CIS 27B.		
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.			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.		
CIS 27D	JAVA ADVANCED FEATURES	5 Units	CIS 27D	JAVA ADVANCED FEATURES	5 Units
Advisory: CIS 27B or CIS 27P.			Advisory: CIS 27B or CIS 27P.		
Four hours lecture, four hours terminal time.			Four hours lecture, four hours terminal time.		
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.					
CIS 27P	JAVA FOR PROGRAMMERS	5 Units	CIS 27P	JAVA FOR PROGRAMMERS	5 Units
Advisory: Prior C/C++ programming experience.			Advisory: Prior C/C++ programming experience.		
Four hours lecture, four hours terminal time.			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, 25A, 27A or equivalent.		Advisory: CIS 52B or equivalent.		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.			
CIS 50A	USING THE COMPUTER: PC (WINDOWS)	4 Units	CIS 52F	ORACLE DATABASE ADMINISTRATION II	5 Units
Advisory: Not open to students with credit in CIS 50B.		Advisory: CIS 52E or equivalent.		Four hours lecture, four hours terminal time.	
Two hours lecture, two hours lecture-laboratory, two hours terminal time.		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 52B or equivalent.		Four hours lecture, four hours terminal time.	
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.		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.		Four hours lecture, four hours terminal time.	
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		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, 50B, or 60.		Advisory: CIS 52F.		Four hours lecture, four hours terminal time.	
Four hours lecture, four hours terminal time.		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 52B	ORACLE SQL	5 Units	CIS 52M	ORACLE REPORTS	5 Units
Four hours lecture, four hours terminal time.		Four hours lecture, four hours terminal time.		Using Oracle Reports Developer 10g to design, create, and enhance standard and custom Web and paper reports. Students learn how to access, display, and format data in different reporting styles, add dynamic content to a Web page, and publish the output. Students will also learn how to customize complex reports, embed graphical charts, and use OracleAS Reports Services to maximize report performance.	
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.		CIS 52N		MySQL & PHP	
CIS 52B2	INTRODUCTION TO ORACLE SQL	5 Units	Four hours lecture, four hours terminal time.		5 Units
Four hours lecture, four hours terminal time.		Students learn how to use MySQL and PHP to develop dynamic database-driven web sites. Hands-on installation of PHP, Apache, and MySQL. This course covers the rudiments of PHP programming, MySQL capabilities, and accessing of MySQL from PHP.			
CIS 52C	DATABASE MODELING & RELATIONAL DATABASE DESIGN	5 Units	CIS 52P	PHP: IN-DEPTH	4 Units
Four hours lecture, four hours terminal time.		Four hours lecture, four hours terminal time.		Students learn the advanced features of PHP to develop powerful web applications. Topics include object-oriented programming, design patterns, error handling, integration of XML/SOAP, PEAR, mainstream extensions, shell scripting, databases, and performance tuning.	
All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.					

CIS 52Q	MySQL: IN-DEPTH	4 Units	CIS 61C	INFORMATICS TOOLS & METHODS	5 Units
Four hours lecture, four hours terminal time.			Advisory: CIS 61A or equivalent; MATH 10; familiarity with SQL.		
In-depth study of MySQL 5.0. Overview of MySQL architecture and configuration; MySQL Administrator features; MySQL storage engines; table and user maintenance; backup and recovery; optimizing queries, databases, server, and the environment; and securing the MySQL installation. This course also covers data manipulation and data definition language; triggers, stored procedures, and functions; and database metadata. Prepares students to take the MySQL 5.0 Database Administrator and MySQL 5.0 Developer Certification exams.			May be taken three times for credit.		
CIS 52R	ESSENTIALS OF PostgreSQL ADMINISTRATION	4 Units	Two hours lecture, two hours lecture-laboratory, four hours terminal time.		
Advisory: CIS 52A or equivalent.			Introduces students to the methods of using Excel, Access, Informatica, and SAS in solving informatics problems. Hands on use of each tool in combined directed data analysis, integration, and migration activities. Hands on exercises with business intelligence tools, creating reports, customizing dashboards, and use of Meta directories. Use of SQL queries on data cubes for creating custom and automated reports.		
CIS 52R	ESSENTIALS OF PostgreSQL ADMINISTRATION	4 Units	CIS 61X	INFORMATICS PROJECTS	1 Unit
Advisory: CIS 52A or equivalent.			CIS 61Y		2 Units
Two hours lecture, four hours terminal time.			CIS 61Z		3 Units
The course includes training in using and managing the latest version of the PostgreSQL Open Source database. Includes hands-on training in the installation of PostgreSQL, the creation and maintenance of database objects, administration of the PostgreSQL architecture, and security and optimization techniques.			Advisory: CIS 61A1, 63B or equivalent.		
CIS 54C	SQL SERVER DATABASE DESIGN	5 Units	One and one-half hours lecture, six hours terminal time.		
Advisory: CIS 52A, CNET 54A or equivalent.			Projects course for demonstrating working knowledge of Informatics process and architecture. Students will create an Informatics project incorporating data storage, analysis, and reporting. Typical projects will include, but not be limited to, data mining, visualization, Web-database integration, and XML report formats. Goal of the project is to demonstrate working knowledge, skills, and abilities in Informatics. Concurrent work experience and projects may be submitted with consent of instructor.		
CIS 54C	SQL SERVER DATABASE DESIGN	5 Units	CIS 62A	DATA WAREHOUSING & DATA MINING	5 Units
Advisory: CIS 52A, CNET 54A or equivalent.			Advisory: CIS 52C or equivalent.		
Two hours lecture, two hours lecture-laboratory, four hours terminal time.			Four hours lecture, four hours terminal time.		
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			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 54E	SQL SERVER DATABASE ADMINISTRATION	5 Units	CIS 63A	SYSTEMS ANALYSIS, DESIGN & HUMAN INTERFACE	5 Units
Advisory: CNET 60A.			Advisory: CIS 60 or equivalent. Familiarity with object-oriented computer applications. PowerPoint®, Flash® or equivalent presentation software recommended.		
Four hours lecture, four hours terminal time.			Four hours lecture, four hours terminal time.		
This course provides students with the knowledge and skills required to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server 2000. The course is designed to prepare students for the Microsoft Certified Database Administrator (MCDBA) Exam 70-228 -- Installing, Configuring, and Administering Microsoft SQL Server 2000 Enterprise Edition.			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 60	INTRODUCTION TO BUSINESS INFORMATION SYSTEMS	5 Units	CIS 63A1	SYSTEMS ANALYSIS & DESIGN	5 Units
Advisory: MATH 101 or equivalent and eligibility for ENGL 1A or ESL 26 highly recommended.			Prerequisite: CIS 60 or equivalent.		
Four hours lecture, four hours terminal time.			Advisory: Database or application programming, PowerPoint® or Visio® or equivalent presentation/diagramming software.		
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]			Four hours lecture, five hours terminal time.		
CIS 61A	INFORMATICS	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 60 or equivalent. Concurrent enrollment in CIS 61B.			CIS 63B	DESIGN & ANALYSIS FOR INFORMATICS RESEARCH	5 Units
Four hours lecture, four hours terminal time.			Advisory: MATH 10 and CIS 63A or equivalent.		
Introduction to the concepts, practice and tools underlying the study of Informatics. Topics include, but not limited to, Information representation and infrastructure, Meta data, the Semantic web, knowledge management, data warehousing, data mining, user interface, analytical tools, careers, industry trends, social, global and organizational impacts, and applications in business, industry and education.			May be taken three times for credit.		
CIS 61B	PREPARATION FOR CAREERS IN INFORMATICS	2 Units	Fours hours lecture, fours hours terminal time.		
Advisory: Not open to students with credit in CIS 51A.			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.		
Two hours lecture, one hour terminal time.					
Orientation to the Foothill College Informatics program. The course has two goals for participating students - to help the student in differentiating among the potential careers paths in the field of informatics, and to prepare the student in the career path chosen. Opportunities in informatics and related careers to be discussed. Interest, aptitude and readiness for a career in informatics will be analyzed by the student. Professional and academic preparation, basic skills needed and resources available at Foothill College and aligned schools and industry will be covered through discussion and classroom laboratory applications.					

CIS 64A COMPUTERIZED ACCOUNTING PRACTICE	1 Unit	CIS 68H BIOPERL PROGRAMMING FOR BIOINFORMATICS	5 Units
Prerequisites: ACTG 1A or equivalent experience.		Advisory: CIS 68E or COIN 68 or equivalent.	
Advisory: MATH 10 or high school algebra recommended. Not open to students with credit in ACTG 64A.		Four hours lecture, four hours terminal time.	
Two hours lecture-laboratory.		This course will introduce BioPerl modules in the analysis of bioinformatics data, including downloading, installing and configuring BioPerl in a Windows environment. Using BioPerl modules, this course will show the student how to retrieve, analyze and manipulate genomic/proteomics sequences from databases such as GenBank and GenPept, RefSeq, SWISSPROT, EMBL, etc. It will show how to use BioPerl modules to convert between and from various file formats including FASTA, SWISSPROT, and EMBL. It includes extracting annotations/features from sequence files, performing similar sequence searches and using sequence alignments. BioPerl modules exercises include running applications such as BLAST, Smith-Waterman, Clustalw, HMMER etc. This course is intended for bioinformatics students with a strong foundation in Perl, which is provided by the course CIS 68J.	
CIS 64B COMPUTERIZED ACCOUNTING: SPREADSHEET	1 Unit	CIS 68J PERL PROGRAMMING FOR BIOINFORMATICS	5 Units
Prerequisite: ACTG 1B or equivalent experience.		Advisory: CIS 50A or equivalent.	
Advisory: MATH 10 or high school algebra recommended. Not open to students with credit in ACTG 64B.		Four hours lecture, four hours terminal time.	
Two hours lecture-laboratory.		Provides a strong foundation in Perl programming for Bioinformatics, which has become a required 'lab skill' for biologists. It shows the student how to use Perl in a Windows environment to solve programming problems such as creating, modifying, comparing and deleting biological data files, searching for motifs in these data files, manipulating sequences found in these data files etc. Elucidates basic programming concepts such as operators, conditional and looping constructs, file operations and regular expressions. Class exercises emphasize use of biological sequence data for bioinformatics problem solving. This course provides the requisite skills to successfully complete the CIS 68H course.	
CIS 68A INTRODUCTION TO LINUX & UNIX	5 Units	CIS 68K INTRODUCTION TO PYTHON PROGRAMMING	5 Units
Advisory: CIS 50A or 50B or equivalent.		Advisory: CIS 15A or 27A, and CIS 68A.	
Three hours lecture, one hour lecture-laboratory, four hours terminal time.		Four hours lecture, 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.		This course will introduce students to the Python language and environment. Python is a portable, interpreted, object-oriented programming language that is often compared to Perl, Java, Scheme and Tcl. The language has an elegant syntax, dynamic typing, and a small number of powerful, high-level data types. It also has modules, classes, and exceptions. The modules provide interfaces to many system calls and libraries, as well as to various windowing systems(X11, Motif, Tk, Mac, MFC). New built-in modules are easily written in C or C++. Such extension modules can define new functions and variables as well as new object types.	
CIS 68B LINUX & UNIX SHELL PROGRAMMING	4 Units	CIS 78 SOFTWARE ENGINEERING	5 Units
Advisory: CIS 68A or equivalent.		Advisory: Any structured programming class.	
Four hours lecture, four hours terminal time.		Four hours lecture, four hours terminal time.	
LINUX shell script programming using the Bourne Again shell programming language (bash) and UNIX utilities to create practical shell scripts.		A language-independent study of current software development methodologies. The stages of systems analysis, product design, implementation and testing are practiced. Collaborative, interactive design and technical writing are problem solving techniques learned.	
CIS 68C1 LINUX & UNIX SYSTEM ADMINISTRATION	5 Units	CIS 96 SPECIAL PROJECTS	1 Unit
Advisory: CIS 68A or equivalent.		CIS 96X	2 Units
Two hours lecture, two hours lecture-laboratory, four hours terminal time.		CIS 96Y	3 Units
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.		Any combination of CIS 96, 96X & 96Y may be taken for a maximum of nine units.	
CIS 68C2 LINUX & UNIX NETWORKING ADMINISTRATION	5 Units	Three hours terminal time.	
Advisory: CIS 68A, 68B1 and 68C1 or equivalent experience.		Individual research and/or projects in computer information systems, computer science or data communication.	
Two hours lecture, two hours lecture-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	CIS 102 COMPUTER KEYBOARDING SKILLS	.5 Unit
Prerequisite: CIS 68C2 or equivalent experience.		Advisory: Not open to students with credit in CAST 102. Pass/No Pass.	
Two hours lecture, two hours lecture-laboratory, two hours terminal time.		One hour lecture-laboratory.	
Administration of a UNIX system operating in remote mode using a name service. Hands-on experience with configuration and maintenance.		Beginning keyboarding course covering the operation of the keyboard using the touch system and the development of correct techniques to interact more efficiently with desktop computers, computer terminals, or electronic communication systems. Designed for independent skill learning.	
CIS 68E PROGRAMMING IN PERL	5 Units		
Advisory: CIS 15A or 25A or 27A, and CIS 68A.			
Four hours lecture, four hours terminal time.			
Programming in the UNIX environment, PERL, to create utility programs.			

CIS 111 LEARNING-COLLABORATIVE TRAINING 1 Unit
Prerequisites: An earned "A" or "B" grade with instructor recommendation in the computer, electronics or networking course in which learning assistance will be provided to students.
Advisory: Pass/No Pass.
May be taken three times for credit.
One hour lecture, two hours laboratory.
 Training in strategies and skills necessary for assisting students in a collaborative learning environment; including techniques of group learning, study skills and subject-specific instructional support.

CIS 117U CIS EXPERIMENTAL INTERNSHIP 3 Units
May be taken for a maximum of 18 units of credit.
Nine hours laboratory.

Off-campus supervised experiential education of CIS students in database administration, computer software development or Informatics. Opportunity for practical application of knowledge, skills and abilities acquired in CIS and related course work. Exposure to varied protocols, methodologies and practices in a professional working environment.

CIS 190 DIRECTED STUDY .5 Unit
CIS 190X 1 Unit
CIS 190Y 1.5 Units
CIS 190Z 2 Units

Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in a computer science class or enrollment in any class requiring computer usage.

Any combination of CIS 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.

One-half hour lecture, one and one-half hours laboratory.
 Computer projects for students who desire or require additional help in attaining comprehension and competency in computer skills.

CIS 191 WRITING/COMMUNICATION ACROSS .5 Unit
CIS 191X THE CURRICULUM FOR COMPUTERS, 1 Unit
CIS 191Y TECHNOLOGY & INFORMATION SYSTEMS 1.5 Units
CIS 191Z 2 Units

Advisory: Pass/No Pass.
Any combination of CIS 191, 191X, 191Y & 191Z may be taken for a maximum of 12 units.

One-half hour lecture, one and one-half hours laboratory.
 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
www.foothill.edu/ctis/

CNET 50 INTRODUCTION TO COMPUTER NETWORKING 4 Units

Four hours of lecture, two hours 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 4 Units
2000 PROFESSIONAL

Advisory: CNET 50 or 52L.
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 51H MICROSOFT WINDOWS 2000 4 Units
XP PROFESSIONAL

Advisory: CNET 50 or 52L.
Two hours lecture, two hours lecture-laboratory, two hours of terminal time.
 This course provides students with the knowledge and skills necessary to install, configure, administer, and support Microsoft Windows 2000 XP Professional in workgroup, domain, and multiple domain network environments. The course provides the information necessary to pass the Microsoft Certification Exam 70-270, Installing, Configuring, and Administering Microsoft Windows XP Professional.

CNET 53A INTRODUCTION TO NETWORK MANAGEMENT 4 Units

Advisory: CNET 50 or equivalent.
Four hours lecture, two hours terminal time.
 The course covers industry-wide network and systems management topics, including SNMP data communication and data collection, infrastructure device discovery, topological mapping of the devices, capability to receive and respond to SNMP traps, architecture topics on managing network devices, servers, workstations, applications and databases using industry standard SNMP based tools such as OpenView. This course is designed to prepare the student for the General OpenView Certification Exam.

CNET 53B INTERMEDIATE NETWORK & SYSTEMS MANAGEMENT & TROUBLESHOOTING 4 Units

Advisory: CNET 53A or equivalent.
Four hours lecture, two hours terminal time.
 The course covers industry-wide network and systems management topics, including ITIL, SNMP data communication and data collection, infrastructure device discovery, topological mapping of the devices, capability to receive and respond to SNMP traps, architecture topics on managing network devices, servers, workstations, applications and databases using industry standard SNMP based tools such as OpenView. The course will include experience with the installation and configuration of a network management platform. This course is designed to build upon the topics covered in CNET53A to prepare the student for the general OpenView Certification Exam.

CNET 53C ADVANCED NETWORK & SYSTEMS MANAGEMENT & TROUBLESHOOTING 4 Units

Advisory: CNET 53B or equivalent.
Four hours lecture, two hours terminal time.
 The course covers advanced industry-wide network and systems management topics, including ITIL, Service Management, TCP/IP communications, data collection, reporting, customized SNMP configurations, architecture topics on managing networks, systems, applications and databases. The course will include experience with the installation and advanced configuration of a network management platform. This course is designed to build upon the topics covered in CNET53B to prepare the student for the general OpenView Certification Exam.

CNET 53M DESIGNING CISCO INTERNETWORKING SOLUTIONS 4 Units

May be repeated three times for credit.
Four hours lecture, three hours terminal time.
 This teaches the student how to design enterprise networks. The student will learn about network design using the Enterprise Composite Network Model. Network complexity and methods to simplify your design are important aspects of this course. Specific topics include local-area network (LAN) and wide-area network (WAN) designs, Internet Protocol (IP) addressing, routing protocol selection, designing voice networks, including security in your designs and network management design. This course is prepare the student for the Cisco Certified Design Associate (CCDA) certification examination.

CNET 53N FUNDAMENTALS OF ENTERPRISE NETWORK DESIGN 4 Units

May be repeated three times for credit.
Four hours lecture, three hours terminal time.
 The course provides the student with an understanding of latest developments in network design and technologies. The course covers topics on network infrastructure, intelligent network services, and converged network solutions. The course is designed to prepare the student for the Certified Cisco Design Professional (CCDP) certification examination.

CNET 54A	NETWORKING FUNDAMENTALS & THE TCP/IP PROTOCOL SUITE (CCNA 1)	5 Units	CNET 54H	REMOTE ACCESS (CCNP 2)	5 Units
Advisory: CNET 50.			Advisory: CNET 54D or CCNA Certification or equivalent.		
May be taken three times for credit.			May be taken three times for credit.		
Four hours lecture, four hours laboratory, three hours terminal time.			Four hours lecture, four hours laboratory, three hours terminal time.		
This course is designed to provide students with classroom and laboratory experience in current and emerging networking 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.			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/telecommuters. Students will also learn how to control access to the central site, as well as maximize bandwidth utilization over the remote links.		
CNET 54B	ROUTING & ROUTER CONFIGURATION (CCNA 2)	5 Units	CNET 54I	MULTI-LAYER SWITCHING (CCNP 3)	5 Units
Advisory: CNET 54A or equivalent.			Advisory: CNET 54C or CCNA Certification or equivalent.		
May be taken three times for credit.			May be taken three times for credit.		
Four hours lecture, four hours laboratory, three hours terminal time.			Four hours lecture, four hours laboratory, three hours terminal time.		
This course is an introduction to router and routing concepts and terminology including distance vector and link state routing, RIPv1 and RIPv2, IGRP and 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.			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 54C	SWITCHING BASICS & INTERMEDIATE ROUTING (CCNA 3)	5 Units	CNET 54J	NETWORK TROUBLESHOOTING (CCNP)	5 Units
Advisory: CNET 54B or equivalent.			Advisory: CNET 54G, 54H and 54I or equivalent.		
May be taken three times for credit.			May be taken three times for credit.		
Four hours lecture, four hours laboratory, three hours terminal time.			Four hours lecture, four hours laboratory, two hours terminal time.		
The course is designed to provide students with classroom and laboratory experience advanced features of routers and routing concepts including the OSPF and EIGRP routing protocols, network congestion issues, LAN segmentation using bridges and switches, cut-through and store-and-forward switches, and the operation of the Spanning Tree protocol. This class includes hands-on experience using Cisco routers. This is the third course in the Cisco Networking Academy CCNA curriculum.			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 54D	WAN TECHNOLOGIES (CCNA 4)	5 Units	CNET 54L	NETWORK SECURITY I FIREWALLS, ACCESS, CONTROL & IDENTITY MANAGEMENT	5 Units
Advisory: CNET 54C or equivalent.			Advisories: CNET 54D or the Cisco CCNA Certification.		
May be taken three times for credit.			May be repeated three times for credit.		
Four hours lecture, four hours laboratory, three hours terminal time.			Four hours lecture, four hours laboratory, three hours terminal time.		
Instruction includes increasingly sophisticated router configuration (WAN services: LAPB, Frame Relay, ISDN/LAPD, HDLC, PPP, and DDR.); WAN switch configuration; Network Address Translation; network troubleshooting. This is the fourth of four courses designed to introduce students to current and emerging networking technology, it is preparation for the Cisco Certified Networking Associate (CCNA) certification.			This course provides students with the knowledge and skills necessary to select appropriate security hardware, software, policies, and configurations based on an organization's assessment of its security vulnerabilities in order to provide protection against known security threats. The course includes coverage of the Firewalls and the AAA Service. The concepts presented apply to all network security scenarios, the labs will feature Cisco hardware.		
CNET 54G	ADVANCED ROUTING (CCNP 1)	5 Units	CNET 54M	CISCO NETWORK SECURITY II: VIRTUAL PRIVATE NETWORKS, INTRUSION DETECTION SYSTEMS & INTRUSION PREVENTION SYSTEMS	5 Units
Advisory: CNET 54C or CCNA Certification or equivalent.			Advisory: CNET 54D or the Cisco CCNA Certification.		
May be taken three times for credit.			May be repeated three times for credit.		
Four hours lecture, one-half hour lecture-laboratory, three hours laboratory, two hours terminal time.			Four hours lecture, four hours laboratory, two hours of terminal time.		
This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: Building Scalable Cisco Internetworks (BSCI). Instruction includes advanced IP addressing, advanced routing protocols including OSPF, EIGRP, IS-IS, and BGP, and advanced access lists.			This course provides students with the knowledge and skills necessary to select appropriate security hardware, software, policies, and configurations based on an organization's assessment of its security vulnerabilities in order to provide protection against known security threats. The course includes coverage of the Firewalls, Intrusion Detection, the AAA Service, and VPNs. The concepts presented apply to all network security scenarios, the labs will feature Cisco hardware.		
CNET 54N	FUNDAMENTALS OF CISCO WIRELESS LANS	5 Units			
Advisory: CNET 54B or a basic knowledge of networking and Cisco Router configuration.					
May be repeated three times for credit.					
Four hours lecture, four hours laboratory, three hours 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.					

CNET 54Q	INTRODUCTION TO VOICE OVER IP (VoIP) TECHNOLOGIES	5 Units	CNET 60A	MICROSOFT WINDOWS 2003 SERVER	4 Units
Advisories: CNET 54D or the Cisco CCNA Certification or equivalent experience. May be repeated three times for credit.	Advisory: CNET 51A or 51H.		Two hours lecture, two hours laboratory, two hours terminal time.	<p>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.</p>	
Four hours lecture, four hours laboratory, three hours terminal time.					
This introductory course focuses on the basics of IP Telephony and Voice over IP technology. Participants will learn basic concepts and vocabulary of IPT as well as basic setup and configuration of an IP telephone system. Emphasis will be given to hands-on skills in the areas of basic setup, automated phone setup voice interfaces, dial-peers, call park, transfer and forward, customized phone display, telephony addressing schemes and voice quality. This course is intended for individuals with CCNA training or certification or equivalent experience. Students will be expected to actively participate in all class activities, course content discussions, hands-on labs, assessments and skills-based assessments.					
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.		Two hours lecture, two hours lecture-laboratory, two hours terminal time.		
Four hours lecture, two hours 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.					
CNET 56B	INTRUSION DETECTION, AWARENESS, ANALYSIS & PREVENTION	4 Units	CNET 60C	MICROSOFT WINDOWS 2003 NETWORK INFRASTRUCTURE	4 Units
Advisory: CNET 54A, 56A or equivalent.	Advisory: CNET 60B.		Two hours lecture, two hours lecture-laboratory, two hours terminal time.		
Four hours lecture.					
Students will apply network security concepts to the management of enterprise network threats, outages and incident response. Student work in teams to assess risk, identify abnormal occurrences, and propose countermeasures. They will get practice in reporting conclusions and recommendations, creating appropriate security procedures and taking steps to raise security awareness.					
CNET 56C	NETWORK SECURITY PENETRATION TESTING & ETHICAL HACKING	5 Units	CNET 60D	MICROSOFT WINDOWS 2003 ACTIVE DIRECTORY	4 Units
Advisory: CNET56A or equivalent.	Advisory: CNET 60C.		Two hours lecture, two hours lecture-laboratory, two hours terminal time.		
May be repeated three times for credit.					
Four hours lecture, four hours laboratory, three hours terminal time.					
This course covers penetration-testing tools and techniques that ethical hackers and security testers use to protect computer networks. This course provides a structured knowledge base for preparing security professionals to discover vulnerabilities and recommend solutions for tightening network security and protecting data from potential attackers.					
CNET 56E	WINDOWS XP/2000/2003 SYSTEM SECURITY	5 Units	CNET 60E	MICROSOFT WINDOWS 2003 NETWORK DESIGN	4 Units
Advisory: CNET 54A, 56A, 60A, 60B, 60C, and 60D or equivalent experience.	Advisory: CNET 60D.		Two hours lecture, two hours lecture-laboratory, two hours terminal time.		
Two hours lecture, two hours lecture-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.					
CNET 56F	LINUX & UNIX SYSTEM SECURITY	5 Units	CNET 60F	MICROSOFT WINDOWS 2003 EXCHANGE SERVER	4 Units
Advisory: CNET 56A, CIS 68A, 68B1, 68C1 and 68C2, or equivalent experience.	Advisory: CNET 60E.		Two hours lecture, two hours lecture-laboratory, two hours terminal time.		
Three hours lecture, two hours lecture-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.					
CNET 56G	THE CERTIFIED INFORMATION SYSTEMS PROFESSIONAL	4 Units	CNET 60G	SUPPORTING USERS & TROUBLESHOOTING AN MS WINDOWS XP OPERATING SYSTEM	4 Units
Advisory: CNET56A or equivalent.	Advisory: CNET 51H or equivalent.		Four hours lecture, three hours terminal time.		
Four hours lecture, three hours 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 CISSP Certification Exam.					

CNET 60H	SUPPORTING USERS & TROUBLESHOOTING DESKTOP APPLICATIONS ON AN MS WINDOWS XP OPERATING SYSTEM	4 Units	CNET 99	CNET PROJECT	2 Units
Advisory: CNET 51H or equivalent.			One hour lecture, three hours laboratory. Electronic project construct, test, documentation and reporting contracted with an instructor.		
Four hours lecture, three hours terminal time.			CNET 111	INTRODUCTION TO PERSONAL COMPUTER CONSTRUCTION & OPERATION	5 Units
This course is to provide individuals who are new to supporting Microsoft Windows™ XP with the knowledge and skills necessary to troubleshoot basic problems end users will face while running applications with Microsoft Windows XP Professional in an Active Directory™ network environment, or Windows XP Home edition in a workgroup environment. This is an introductory course designed to provide an overview of Microsoft Desktop Application concepts and how to troubleshoot those applications in a Windows XP environment. The course helps prepare the student for the Microsoft Certification Exam 70-272, Supporting Users Running Applications on Microsoft Windows XP.			Three hours lecture, one hour lecture-laboratory, four 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.		
CNET 65A	WIRELESS NETWORK ADMINISTRATION	4 Units	CNET 114	ADVANCED PC CONSTRUCTION & TROUBLESHOOTING	5 Units
Advisory: CNET 50.			Advisory: CNET 76 and 111.		
Two hours lecture, two hours lecture-laboratory, two hours laboratory.			Two hours lecture, two hours lecture-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.		
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 115	A+ COMPUTER EXAM PREP FOR PC	5 Units
CNET 65B	WIRELESS NETWORK SECURITY	4 Units	Advisory: CNET 114 or equivalent.		
Advisory: CNET 50 and 70A.			May be taken two times for credit.		
Two hours lecture, two hours lecture-laboratory, two hours laboratory.			Two hours lecture, two hours lecture-laboratory, one hour terminal time. 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 65C	WIRELESS NETWORK ANALYSIS	4 Units	CNET 116A	INTRODUCTION TO PC ELECTRONICS & THE COMMAND LINE (A+ PREP)	5 Units
Advisory: CNET 50 and 65A.			Advisory: MATH 101.		
Two hours lecture, two hours lecture-laboratory, two hours laboratory.			Two hours lecture, two hours lecture-laboratory, four hours terminal time. 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).		
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 116B	WINDOWS INSTALLATION, UPGRADING & TROUBLESHOOTING (A+ PREP)	5 Units
CNET 76	ELECTRONICS FOR PC & NETWORKING TECHNOLOGY	5 Units	Advisory: CNET 116A.		
Advisory: Electronic mathematics. (May be taken concurrently).			Two hours lecture, two hour lecture-laboratory, four hours terminal time. 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.		
Three hours lecture, two hours lecture-laboratory.			CNET 117	CNET INTERNSHIP	.5 Unit
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 117X		1 Unit
CNET 95A	CABLE INSTALLATION & TERMINATION	2 Units	CNET 117Y		1.5 Units
Advisory: CNET 50.			CNET 117Z		2 Units
One hour lecture, three hours laboratory.			Advisory: Pass/No Pass.		
Methods and materials used in the installation and termination of network wiring topologies.			Any combination of CNET 117, 117X, 117Y & 117Z may be taken for a maximum of six units.		
CNET 95G	NETWORK TESTING & TROUBLESHOOTING	2 Units	One-half hour lecture, one and one-half hours laboratory. Actual work experience in a business, commercial or industrial facility.		
Advisory: CNET 95A and 95C or equivalent.			CNET 118	OTI: WORK SKILLS IN A TECHNICAL SUPPORT ROLE	4 Units
One hour lecture, one hour lecture-laboratory, three hours terminal time.			Advisory: Familiarity with microcomputers, Windows 2000 Professional and Windows 2000 server set up. CIS 51A, ENGL 110 and ENGL 100, or ESL 25 or equivalent.		
Methods and procedures required to test and troubleshoot systems in local- and wide-area networks.			Four hours lecture, two hours laboratory. Basic theory and application of technical support including customer interaction, tools, root cause analysis and problem solving.		
CNET 97A	A PRACTICUM IN ENTERPRISE SECURITY	6 Units			
Advisory: CNET 56A, 54A.					
Four hours lecture, six hours laboratory, three hours terminal time.					
This course is designed to provide students with classroom and laboratory experience in current and emerging enterprise security technology and issues. Students work in teams to resolve authentic enterprise security tasks, reflect on outcomes, and create security policies and procedures.					

CNET 119 CUSTOMER SERVICE FOR IT PROFESSIONALS 3 Units

Advisory: MATH 101, ENGL 110 or ESL 25, CIS 50A, CNET 51A, 111 or equivalent. One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.

An overview of the knowledge, skills, and abilities necessary for employment in the user support industry. Includes lectures, discussions, case studies, practical exams, and team projects. Topics covered include professional conduct in a customer service environment, problem-solving, communication skills, effective presentations, customer management, and technical considerations. Standard business computer applications such as MS Office will be used in the composition of business letters, memos, e-mails, forms and business presentations. Common customer, asset, and service management software will be explored.

CNET 190	DIRECTED STUDY	.5 Unit
CNET 190X		1 Unit
CNET 190Y		1.5 Units
CNET 190Z		2 Units

Advisory: Pass/No Pass.

Any combination of CNET 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.

One-half hour lecture, one and one-half hours laboratory.

Computer projects for students who desire or require additional help in attaining comprehension and competency in learning skills.

COMPUTERS & SOFTWARE TRAINING

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CAST 50 CAREER EXPLORATION 1 Unit
USING THE INTERNET

Advisory: Familiarity with general computing and email recommended. Not open to students with credit in CRLP 90. Pass/No Pass.

May be taken three times for credit.

Two hours lecture-laboratory, one hour terminal time.

Exploration of high-tech careers using the resources of the Internet.

CAST 52A INTRODUCTION TO MACROMEDIA FLASH 4 Units

Advisory: CIS 50A or 50B, or equivalent, and COIN 61 and current Internet technologies (Web browsers, common graphics formats, FTP).

May be taken two times for credit.

Two hours lecture, two hours lecture-laboratory, three hours terminal time.

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

Advisory: CIS 50A or CIS 50B, or equivalent, COIN 61 and current Internet technologies (Web browsers, common graphics formats, FTP).

May be taken three times for credit.

Two hours lecture, two hours lecture-laboratory, three hours terminal time.

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

Advisory: CAST 52A, CIS 50A or 50B or equivalent.

May be taken three times for credit.

Two hours lecture, two hours lecture-laboratory, three hours terminal time.

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 50B or equivalent is strongly recommended.

May be taken three times for credit.

One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.

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

Advisory: CIS 50A, or 50B or equivalent. An understanding of basic HTML concepts and practice is expected.

One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.

Introductory concepts and methods of Web page and Web site design using Adobe GoLive. Work with text, graphics, tables and hyperlinks. Smooth integration with other Adobe products including Photoshop and Illustrator.

CAST 56A INTRODUCTION TO FILEMAKER PRO 3 Units

May be taken two times for credit.

One and one-half hours lecture, one and one-half hours lecture-laboratory, and three hours terminal time.

Introduction to using and designing databases on this popular relational, cross-platform database program. Hands-on experience creating databases structures and interfaces.

CAST 56B INTERMEDIATE FILEMAKER PRO 3 Units

Advisory: Completion of CAST 56A or equivalent.

May be taken three times for credit.

One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.

Conceptualizing and designing databases on this popular relational, cross-platform database program. Hands-on experience creating databases structures and interfaces, with special attention given to design objectives, relational theory, scripting methods and complex calculations. This course will provide real-world techniques and best practices for developers, and demonstrate how to take advantage of new features in FileMaker. Students will gain a comprehensive understanding of topics through reading course materials, in-depth discussion, example exercises, and hands-on practice via a self-directed project.

CAST 58 USING XML SPY 2 Units

Prerequisite: COIN 78.

Advisory: Familiarity with XML DTDs, schema, XPath, XSL, and XSLT.

May be taken three times for credit.

One and one-half hours lecture-laboratory, three hours terminal time.

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 xmlspy™ 5 to support modeling, editing, debugging and validating any XML technology, including XML Schema, XSL/XSLT, and SOAP, and WSDL as used in Web services, as well as server-side XML and SOAP.

CAST 63A	INTRODUCTION TO COMPUTER-AIDED DRAFTING USING AUTOCAD	4 Units	CAST 70G	INTRODUCTION TO MACROMEDIA DIRECTOR	4 Units
Advisory: Knowledge of drafting fundamentals. Three hours lecture, two hours lecture-laboratory.			Formerly: <i>CAST 70B1</i> May be taken three times for credit.		
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.			Two hours lecture, two hours lecture-laboratory, four hours terminal time. Introduction to the Macromedia Director multimedia authoring environment. Hands-on experience developing interactive multimedia presentations incorporating simple animation, sound, graphics and digital video movies. This course is based on knowledge and principles of multimedia design and authoring.		
CAST 63B	ADVANCED COMPUTER-AIDED DRAFTING USING AUTOCAD	4 Units	CAST 70H	ADVANCED MACROMEDIA DIRECTOR	4 Units
Advisory: <i>CAST 63A</i> or equivalent. Three hours lecture, two hours lecture-laboratory.			Formerly: <i>CAST 70B2</i> May be taken three times for credit.		
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.			Two hours lecture, two hours lecture-laboratory, four hours terminal time. 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 70A	INTRODUCTION TO ADOBE PREMIERE	3 Units	CAST 71A	USING AUTHORING SOFTWARE TO CREATE INSTRUCTIONAL MATERIALS	3 Units
Advisory: <i>CIS 50A</i> or equivalent; <i>GID 74</i> or equivalent. May be taken three times for credit.			Advisory: <i>CAST 70B</i> or equivalent. May be taken three times for credit.		
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 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.			Use of authoring software to create instructional materials. Hands-on experience with an authoring language to create an interactive module for business, education or industry.		
CAST 70B	MULTIMEDIA DESIGN & AUTHORING	3 Units	CAST 74G	WEB PUBLISHING TOOLS: DREAMWEAVER	3 Units
Advisory: <i>CIS 50A</i> or <i>50B</i> , or equivalent. One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			Advisory: <i>COIN 60</i> ; Familiarity with current Internet technologies (e-mail, Web browsers, common graphics formats, FTP). Not open to students with credit in <i>COIN 74</i> . May be taken two times for credit.		
Introduction to the principles of interface design, conceptualization, and prototyping of multimedia projects with software tools.			One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
CAST 70BL	INTRODUCTION TO FINAL CUT PRO	3 Units			
Advisory: <i>CIS 50A</i> or equivalent. May be taken three 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 use platforms. Principles of designing and maintaining efficient and successful Web sites.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.					
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.			CAST 80	SELECTED TOPICS IN SOFTWARE APPLICATIONS	3 Units
CAST 70C	INTERACTIVE MULTIMEDIA PROJECT	3 Units	May be taken three times for credit.		
Advisory: <i>CAST 52A, 70B</i> or equivalent. May be taken three times for credit.			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 various software application technologies as they emerge.		
Completion of interactive multimedia projects, including production, testing, and delivery of an original CD-ROM title, kiosk presentation, or interactive multimedia Web site.					
CAST 70D	3D MODELING & ANIMATION FOR MULTIMEDIA	3 Units	CAST 86A	INTRODUCTION TO ADOBE INDESIGN	3 Units
Advisory: <i>CIS 50A</i> or <i>50B</i> , or equivalent. May be taken three times for credit.			Advisory: <i>CIS 50A</i> or equivalent. May be taken three times for credit.		
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.		
Fundamentals of 3D modeling and animation for multimedia. Hands-on experience with modeling, rendering, and animation; and conversion techniques utilizing QuickTime and other technologies.			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 70E	INTRODUCTION TO DVD AUTHORING	3 Units	CAST 86B	ADVANCED ADOBE INDESIGN	3 Units
Advisory: <i>CIS 50A</i> or <i>50B</i> , or equivalent; familiarity with digital video, digital audio, common graphics formats. May be taken two times for credit.			Advisory: <i>CAST 86A</i> May be taken three times for credit.		
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 DVD authoring environment. Hands-on experience developing DVD-based multimedia presentations incorporating video, animation, sound, graphics and interactivity.			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	CAST 93A	POWERPOINT: EFFECTIVE PRESENTATIONS	3 Units
Advisory: CIS 50A or equivalent.			Advisory: CIS 50A.		
May be taken three times for credit.			May be taken two times for credit.		
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 QuarkXPress and its use in electronic layout and print media problem solving. Hands-on experience with the basic elements and tools of QuarkXPress.			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 89B	ADVANCED QUARKXPRESS	3 Units	CAST 102	COMPUTER KEYBOARDING SKILLS	.5 Unit
Advisory: CAST 89A or equivalent.			Advisory: Not open to students with credit in CIS 102. Pass/No Pass.		
May be taken three times for credit.			One hour lecture-laboratory.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			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.		
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	CAST 102B	MS WINDOWS: BASICS	3 Units
May be taken three times for credit.			May be taken two times for credit.		
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 Adobe Illustrator, a software drawing tool. Hands-on experience with the basic elements and tools of Adobe Illustrator to produce one-page illustrations.			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 90B	ADVANCED ADOBE ILLUSTRATOR	3 Units	CAST 102C	WINDOWS: HARD DISK MANAGEMENT & UTILITIES	2.5 Units
Advisory: CAST 90A or equivalent.			One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
May be taken three times for credit.			Hands-on introduction to hard disk management, memory management, and the use of utility software; virus software, software installation and peripherals.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.					
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	CAST 102E	PC: VIRUS PROTECTION	2.5 Units
Advisory: CIS 50A or 50B, or equivalent.			One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
May be taken three times for credit.			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.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.					
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	CAST 104A	MICROSOFT WORD I	2.5 Units
Advisory: CAST 91A or equivalent.			May be taken four times for credit.		
May be taken three times for credit.			One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			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.		
Advanced concepts and methods of Painter and its use in image-making, image-editing, and problem solving. Software capabilities and limitations; hands-on experience.					
CAST 92A	INTRODUCTION TO ADOBE PHOTOSHOP	3 Units	CAST 104B	MICROSOFT WORD II	2.5 Units
May be taken three times for credit.			Advisory: CAST 104A or equivalent.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.			May be taken four times for credit.		
Introduction to Adobe Photoshop, an image processing software tool. Hands-on experience with the basic elements and tools to set up files, manage documents, and perform basic image processing.			One and one-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.		
			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 92B	ADVANCED ADOBE PHOTOSHOP	3 Units	CAST 107D	EXCEL: BASICS	2.5 Units
May be taken three times for credit.			May be taken four times for credit.		
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, one and one-half hours terminal time.		
Advanced concepts and methods of Adobe Photoshop and its use in developing images and creating special effects and problem solving. Software capabilities and limitations; hands-on experience.			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	CAST 109F	USING ACCESS	2.5 Units
Advisory: CIS 50A or 50B, or equivalent.			Advisory: CIS 50A or equivalent.		
One-half hours lecture, one and one-half hours lecture-laboratory, one and one-half hours terminal time.			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 232A	MACROMEDIA DIRECTOR I	1 Unit			
CAST 190X		1 Unit	Non-degree applicable credit course.					
CAST 190Y		1.5 Units	Advisory: CAST 200A or 200B, or equivalent.					
CAST 190Z		2 Units	One hour lecture.					
Advisory: Pass/No Pass.								
Corequisite: Concurrent enrollment in a computer science class or enrollment in any class requiring computer usage.								
Any combination of CAST 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.								
One half-hour lecture, one and one-half hours laboratory.								
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 240A	MICROSOFT ACCESS BASICS	1 Unit			
Non-degree applicable credit course.								
One hour lecture.								
Introduction to MS Office and its use in problem solving. Office capabilities and limitations; hands-on experience with the Office interface, Word, Excel and Power Point.								
CAST 203A	MICROSOFT WINDOWS BASICS	1 Unit	CAST 241A	MICROSOFT EXCEL: WORKSHEETS	1 Unit			
Non-degree applicable credit course.								
One hour lecture.								
Introduction to MS Windows and its use in problem solving. Windows graphical user interface capabilities and limitations; hands-on experience.								
CAST 204A	MICROSOFT WORD BASICS	1 Unit	CAST 242A	MICROSOFT EXCEL: DATABASES	1 Unit			
Non-degree applicable credit course.								
One hour lecture.								
Hands-on experience, including formatting, editing, saving, and printing letters, memos, and other short documents, with an introduction to MS Word tools.								
CAST 206A	PC CONSTRUCTION & OPERATION	1 Unit	CAST 243A	MICROSOFT EXCEL: CHARTS & MACROS	1 Unit			
Non-degree applicable credit course.								
Advisory: Not open to students with credit in PCS 111.								
One hour lecture.								
Learn how to assemble and maintain your own PC-compatible computer; hands-on experience. Intended for continuing education.								
CAST 207A	PC HARD DISK MANAGEMENT	1 Unit	CAST 250	FUNDAMENTALS OF PC NETWORKING	1 Unit			
Non-degree applicable credit course.								
Advisory: Not open to students with credit in CAST 102C.								
One hour lecture.								
Learn how to manage your hard drive effectively; hands-on experience. Intended for continuing education.								
CAST 221	OVERVIEW OF ADOBE PHOTOSHOP	1 Unit	COMPUTERS ON THE INTERNET					
Non-degree applicable credit course.								
Advisory: CAST 200B or equivalent. Not open to students with credit in CAST 92A.			Computers, Technology & Information Systems Division (650) 949-7236 www.foothill.edu/ctis/					
One hour lecture.								
Hands-on experience with the basic elements and tools of Photoshop to set up files, manage documents, and perform basic image processing. Intended for continuing education.								
CAST 222A	INTRODUCTION TO PRESENTATION SOFTWARE: POWERPOINT	1 Unit	COIN 51	INTERNET TECHNOLOGY & APPLICATIONS: INTRODUCTION	5 Units			
Non-degree applicable credit course.								
One hour lecture.								
Introduction to presentation software using Microsoft PowerPoint hands-on experience to produce text, graphic, chart and graph images for professional presentations.								
CAST 230L	OVERVIEW OF MULTIMEDIA	.5 Unit	COIN 53	INTRODUCTION TO ONLINE LEARNING	1 Unit			
Non-degree applicable credit course.								
One-half hour lecture.								
Introduction to the various components of multimedia and the production process, and various software tools and hardware systems. Hands-on experience various software to integrate text, graphics, animation, sound and movies.								

COIN 56	E-BUSINESS	4 Units
Advisory: CIS 50A, 50B or equivalent; COIN 61 or equivalent. Familiarity with Internet commerce and E-business; Internet connectivity.		
May be taken three times for credit.		
Four hours lecture, three hours terminal time.		
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.		
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.		
May be taken three times for credit.		
Three hours lecture, two hours laboratory, four hours terminal time.		
Principles and methods of setting up a functional electronic commerce site on the World Wide Web. Upon completion of a class project estimated to take 40 to 60 hours to complete, students will be able to select software and commerce service providers for creating a Web site with searchable inventory and capable of processing orders and accepting payment, and will create a functional Web store business plan for designing, building, launching, and marketing a WWW commerce site.		
COIN 61	PUBLISHING ON THE WEB USING HTML/XHTML	5 Units
Advisory: CIS 50A or equivalent & COIN 51.		
May be taken three times for credit.		
Three hours lecture, one hour lecture-laboratory, five hours terminal time.		
Introduction to electronic publishing on the Web using HTML and XHTML. Students will produce a multi-page Web site with image, text, and links; tables, frames, forms and simple multimedia. Uploading and modifying documents to a web server, interacting with a client, and planning, designing, testing and maintaining a Web site will also be emphasized. This course is based on knowledge of navigating the Internet and browsing the Web.		
COIN 63	ADVANCED TOPICS IN WEB PUBLISHING	5 Units
Advisory: CIS 50A, COIN 51 or equivalent and COIN 61.		
May be taken three times for credit.		
Three hours lecture, one and one-half hours lecture-laboratory, five hours terminal time.		
Exploration of advanced technologies in Web publishing which work with Hypertext Mark-up Language (HTML) and electronic publishing on the Web. Hands-on experience in producing a multi-page Web site using technologies such as Cascading Style Sheets, Multimedia, Dynamic HTML, XML, CGI, JavaScript and other relevant technologies; uploading and modifying Web documents to a Web server; interacting with a client; planning, designing, testing and maintaining a web site. This course is based on knowledge of navigating the Internet and browsing the Web, and prior experience coding in basic HTML.		
COIN 65	USING CASCADING STYLE SHEETS FOR DESIGN	4 Units
Advisory: COIN 61, 63 strongly advised.		
May be taken twice for credit.		
Four hours lecture, three hours terminal time.		
Cascading Style Sheets (CSS) have changed the focus of web development from presentation to structure. This class will discuss separating web content from formatting so that the resulting markup will render more quickly and, through the use of CSS, be presented in a variety of user agents. The class is designed for students who intend to pursue a web development career or for those who want a more advanced understanding of web site creation to enhance their own work or career path. Basic concepts include XHTML markup, methods of styling a document, CSS syntax, fonts and text, positioning elements, basic and advanced page layout and interface components.		
COIN 66	APACHE WEB SERVER MANAGEMENT	4 Units
Advisory: COIN 70A and CIS 68A or equivalent strongly recommended. Students should already be familiar with the concept of web servers, HTTP, browsers, protocols, scripting, basic and other Internet-related subjects.		
May be taken two times for credit.		
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.		
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 68A, 68E, COIN 61; CIS 15A or 25A or equivalent.		
May be taken three times for credit.		
Four hours lecture, three hours terminal time.		
Introduction to CGI scripting using the PERL programming language. A brief review of PERL followed by an introduction to CGI, web server concepts, and various techniques to create professional web sites with database interactivity. Prior programming experience in PERL is assumed.		
COIN 70A	INTRODUCTION TO PROGRAMMING USING JAVASCRIPT	4 Units
Advisory: COIN 63.		
May be taken three times for credit.		
Two hours lecture, two hours lecture-laboratory, three hours terminal time.		
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 70A or prior experience with an object oriented programming language (C/C++/JAVA).		
May be taken three times for credit.		
Four hours lecture, three hours terminal time.		
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; COIN 51, 56, and 61 or equivalent.		
May be taken three times for credit.		
Three hours lecture, three hours terminal time.		
Marketing concepts and theories on how to market and advertise your website effectively on the Internet. Classroom critiques of your site, fine tuning to compete with successful online business models.		
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).		
May be taken two times for credit.		
Four hours lecture, three hours terminal time.		
Principles and methods of creating dynamic, 'fourth-generation' Web sites using the latest Web technologies: JavaScript, Cascading Style Sheets, Java, audio, video and animation plug-ins. Techniques of authoring Web pages for different browsers and different end user platforms. Principles of designing and maintaining efficient and successful Web sites.		

COIN 74A	WEB PUBLISHING TOOLS: DREAMWEAVER BASICS	4 Units	COIN 78C	XML FOR INFORMATICS	5 Units
Advisory: CIS 50A, COIN 51, 61 strongly advised. May be taken twice for credit.	Four hours lecture, three hours terminal time. An introduction to the Dreamweaver environment including principals and methods of planning, designing and creating successful websites. The class is designed for students who intend to pursue a web development career or for those who want a basic understanding of web site creation to enhance their own work or career path. Basic concepts include creating a site, remote site access (FTP), text formatting and manipulation, linking, cascading style sheets, graphics (including image maps, rollovers and navigation bars), tables and layout, frames and site marketing. Techniques of authoring, maintaining and testing for different users, browsers and platforms will be discussed.		Advisory: COIN 78. May be taken three times for credit. Three hours lecture, one hour lecture-laboratory, four hours terminal time. The World Wide Web is transitioning from a content Web, to a process Web, to a knowledge Web. This course introduces the Semantic Web and Semantic Web technologies to students with a firm command of XML and an interest in knowledge engineering. Topics include RSS, RDF, RDDL, Ontologies and Taxonomies, Concept Maps, and XML topic maps. Students will integrate an RSS feed into a blog, build a machine readable XML meta data document, and create a small XML topic map from an ontology, taxonomy, and concept map. This course provides a firm understanding of the Semantic Web initiative, including current activities in RKF (Rapid Knowledge Formation), DAML, and Web based inference and ontology engines.		
COIN 74B	WEB PUBLISHING TOOLS: DREAMWEAVER INTERACTIVE	4 Units	COIN 79	XML FOR BIOINFORMATICS	5 Units
Advisory: CIS 50A, 50B, COIN 51, 61, 74A strongly advised. COIN 70B or an understanding of a programming language. May be taken twice for credit.	Four hours lecture, three hours terminal time. A more in-depth look at the Dreamweaver environment including principals and methods of planning and creating successful interactive websites. The class is designed for students who intend to pursue a web development career or for those who want a more in-depth understanding of the more advanced features of Dreamweaver to enhance their own work or career path. Advanced interactive concepts include client interactions, thorough understanding of the use and issues involved with cascading style sheets, collaborative development, table layout, interactive forms, layers, Dreamweaver behaviors, rich media additions, reusable assets and site marketing. Techniques of authoring, maintaining and testing for different users, browsers and platforms will be emphasized. A good working knowledge of Dreamweaver MX 2004 is expected.		Advisory: COIN 51 or equivalent. BTEC 51A and 52A. May be taken three times for credit. Two hours lecture, two hours lecture-laboratory, five hours terminal time. Introduction to mark-up languages, including HTML and XML, as a method of gaining practical experience and learning the fundamentals of BIOML (BIOploymer Markup Language). This course is intended for students in the bioinformatics discipline who need to understand mark-up languages for encapsulating, transmitting, and presenting biological data on the World Wide Web, with special emphasis placed on interaction and collaboration with bioinformatics databases, and rendering biopolymer data with BIOML.		
COIN 76	WEB PUBLISHING TOOLS: MULTIMEDIA	4 Units	COIN 80	SELECTED TOPICS IN INTERNET TECHNOLOGY	3 Units
Advisory: CIS 50A, 50B, COIN 51, 61. May be taken three times for credit.	Two hours lecture, two hours lecture-laboratory, four hours terminal time. 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.		Advisory: COIN 63. Three hours lecture, three hours terminal time. Introduction to various Internet technologies and Web development tools.		
COIN 78	EXTENSIBLE MARKUP LANGUAGE (XML)	5 Units	COIN 81	INTRODUCTION TO BIOINFORMATICS TOOLS & DATABASES	5 Units
Advisory: COIN 61 or equivalent, and ability to program in Java or JavaScript. May be taken three times for credit.	Four hours lecture, four hours terminal time. 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).		Prerequisites: COIN 51 or equivalent. BTEC 51A and 52A. May be taken three times for credit. Two hours lecture, two hours lecture-laboratory, two hours terminal. This practical course provides an introduction to Internet databases, tools and methods used in bioinformatics, emphasizing genomic and protein databases including NCBI, GenBank, SWISS-PROT, SWISS-MODEL, PBD, PIR, and Pfam. 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 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, SQL and XML. May be taken three times for credit.	Two hours lecture, two hours lecture-laboratory, five hours terminal time. Advanced topics in Internet programming focusing on the use and integration of XML, Java, and database technologies for Web application development. This course is intended for students in the Internet programming discipline and professionals who need to develop hands on programming skills specifically for integrating XML with databases, Java, and development of web services, including the use of SOAP, .Net, and UDDI. This is an advanced course that will cover the most current topics and technologies utilizing XML, with topical focus including 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.		Advisory: CAST 92A or equivalent. One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time. Image preparation and design for the Web using Photoshop and other tools. Image acquisition and correction, conversion and optimizing images for the Web with application to various browsers. Software capabilities and limitations; hands-on experience.		
			COIN 84	SPECIAL WEB PROJECTS	5 Units
			Advisory: CIS 50A, 50B, COIN 51, 61, 63. Two hours lecture, two hours lecture-laboratory, four hours terminal time. Students will create a fully functioning Web site, based on techniques learned in previously taken CAST/COIN classes. Technologies used may include XHTML, CSS, JavaScript, graphics or multimedia development, DHTML, CGI or other relevant technologies.		

COIN 86	SERVER-SIDE PROGRAMMING WITH JAVASERVER PAGES (JSP)	5 Units	COIN 94	CONSTRUCTING DATA-DRIVEN WEB SITES WITH PHP & MySQL	5 Units
Advisory: CIS 27A and COIN 61 or equivalent, COIN 78, and the ability to write simple SQL statements highly recommended. Requires Internet connectivity. May be taken three times for credit.			Prerequisite: COIN 92.		
Four hours lecture, four hours terminal time.			Advisory: Familiarity with the JavaScript programming language. Students must have an understanding of HTML and in a programming language such as Visual Basic, JAVA, or PERL.		
Concepts and techniques used for creating dynamic Web sites with JSP as the primary programming language. Topics include Server-side Web site programming for creating dynamic and distributed Web sites; Java Servelets and its relation to JSP; customized tag creation for improved code design; XML integration for content management and business-to-business (B2B) content and data exchange over the Internet; Java Beans utilization and database connectivity with JDBC; and a survey of various required JSP environments like Jserve and Jrun, and overview of their installation and configuration.			May be taken three times for credit.		
COIN 88	USING UML FOR WEB APPLICATION DEVELOPMENT	3 Units	Two hours lecture, two hours lecture-laboratory, four hours terminal.		
Advisory: Object oriented programming course (Java recommended), hands-on use of Microsoft Visio, and CIS 60 or equivalent.			A comprehensive introduction to Open Source web database integration tools which presents a systematic approach to the design, construction, and deployment of dynamic websites using the popular Open Source tools PHP and MySQL. Emphasis is on the practical considerations and skills required to develop fully functional database enabled websites 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.		
May be taken three times for credit.					
One and one-half hours lecture, one and one-half hours lecture-laboratory, three hours terminal time.					
This course will provide a basic understanding of visual modeling tools and methods for software application development, focusing on the Unified Modeling Language (UML). Microsoft Visio, Visual Studio, and/or specific industry applications (Rational Rose) will be used to model Web-deployed software applications. Special emphasis will be placed on understanding business process requirements gathering and effective modeling techniques using the UML.					
COIN 91	INTRODUCTION TO DATABASE-DRIVEN WEB SITES	5 Units	COIN 96	CONSTRUCTING DATA-DRIVEN WEB SITES WITH ASP.NET	5 Units
Advisory: COIN 61 or equivalent, and some database experience (e.g. CIS 52A). A working vocabulary of Unix, Linux, and Web server technologies is extremely useful but not required.			Prerequisite: CIS 12A, COIN 66 & 94.		
May be taken three times for credit.			Advisory: Familiarity with the JavaScript programming language. Students must have a very good understanding of HTML as well as IIS web server technology.		
Four hours lecture, four hours terminal time.			May be taken three times for credit.		
Introduction to the principles of database-driven, dynamic Websites. Emphasis on both the business and technical requirements and solutions for web-database integration. Introduces and compares the most popular tools currently used for constructing database-driven Web sites, from the simplest to the most powerful, including: Filemaker, MSAccess, Dreamweaver MX, ASP.NET, PHP, and JSP. Web services, and an overview of the industry and business drivers pushing Web database integration are covered.			Two hours lecture, two hours lecture-laboratory, four hours terminal.		
COIN 92	DATABASE-DRIVEN WEB SITES: STEP BY STEP	5 Units	A comprehensive introduction to .NET web database integration tools which presents a systematic approach to the design the construction and deployment of dynamic websites using Microsoft's powerful ASP.NET environment. Emphasis is on the practical considerations and skills required to develop fully functional database enabled websites 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.		
Prerequisites: CIS 52A, COIN 63, 70 and 91.					
Advisory: Some background in a programming language such as Visual Basic, JAVA, or PERL.					
May be taken three times for credit.					
Two hours lecture, two hours lecture-laboratory, four hours terminal.					
An in-depth introduction to the practical methods for constructing and deploying database driven, dynamic Websites. Review of the overall architecture and essential components of database enabled website applications: HTML forms and tables, client side scripting languages, Web servers, server side scripting languages, and database servers. Comparison of the most popular Web Server toolsets available for web-database integration, including: Microsoft VB.NET and ASP.NET, Open source PHP and MySQL, JAVA and JSP, and Dreamweaver MX. Lectures are augmented by a series of structured lab exercises to provide students with a hands-on exposure several popular web database integration toolsets.					
COIN 109	SELECTED BUSINESS TOPICS FOR THE WEB ADMINISTRATOR	6 Units	COIN 1109	COIN INTERNSHIP	.5 Unit
Advisory: COIN 56, 66 or equivalent.			COIN 117X		1 Unit
May be taken two times for credit.			COIN 117Y		1.5 Units
Six hours lecture.			COIN 117Z		2 Units
Introduction to business and legal issues tailored for the Web administrator. Series of lectures by experts on topics, including Internet Security, Web-related legal issues, people skills, management and finance. Provides wide-ranging understanding of the various non-technical aspects of Internet administration.			Advisory: Pass/No Pass.		
			Any combination of COIN 117, 117X, 117Y & 117Z may be taken for a maximum of 6 units.		
			One-half hour lecture, one and one-half hours laboratory.		
			Actual work experience in a business, commercial or industrial facility.		
COIN 181	WEB SITE DESIGN FOR ATYP	5 Units	COIN 181	WEB SITE DESIGN FOR ATYP	5 Units
Non-degree applicable credit course.			Four hours lecture, four hours terminal time.		
Four hours lecture, four hours terminal time.			Fundamentals of electronic publishing on the Web. Includes instruction in producing multi-page Web sites with images, text and links. Topics include basics of design and use of color as well as operation of Web site editing programs. Students will get hands-on experience designing different kinds of Web sites. Assignments will be a mixture of personal and group design.		

COIN 209	NAVIGATING THE INTERNET	1 Unit
Advisory: Not open to students with credit in COIN 50. Familiarity with PC or Mac recommended.		

May be taken three times for credit.

One hour lecture.

How to use the Internet from home or office. Hands-on experience with email, Gopher, Mosaic, File Transfer Protocol (FTP), and news groups. Intended for continuing education.

COIN 210L	WORLD WIDE WEB PAGE DESIGN	.5 Unit
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Non-degree applicable credit course.

May be taken three times for credit.

One-half hour lecture.

Elementary design and creation of World Wide Web pages. Hands-on experience creating Web pages.

CWE 192	COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR COOPERATIVE WORK EXPERIENCE	1 Unit
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Non-degree applicable credit course.

Advisory: Pass/No Pass.

Corequisite: Concurrent enrollment in a Cooperative Work Experience Education class.

May be taken six times for credit.

One hour lecture, three hours laboratory.

For students who desire training and technical support in experiential learning as a community volunteer in specific cooperative work experience disciplines.

COUNSELING

Counseling Division (650) 949-7296
www.foothill.edu/transfer/counseling.html

CNSL 1	COLLEGE SUCCESS	3 Units
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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
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Three hours lecture, three hours laboratory.

Examination of psycho-social and wellness issues related to personal and academic success. Explores theories and practice for effective goal-setting, communication, health and wellness, learning and social growth.

CNSL 50	INTRODUCTION TO COLLEGE	1 Unit
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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 51	PASS THE TORCH TRAINING: LEARNING STRATEGIES FOR STUDENTS PAIRED IN ONE-ON-ONE STUDY TEAMS	3 Units
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One hour lecture, four hours laboratory.

Exploration of learning concepts and strategies essential to succeeding in Pass the Torch as a team member in mathematics, English/ESL composition classes.

CNSL 53	EFFECTIVE STUDY	3 Units
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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
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May be taken six times for credit.

One hour lecture.

Participants in study teams will identify, develop, apply and explore skills appropriate for working together to study for specific general education courses.

CNSL 60A	COLLEGE SUCCESS: WELLNESS	1 Unit
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One hour lecture.

A thorough examination of issues surrounding how wellness contributes to college success. Application of strategies to improve wellness will be administered with an individualistic and group approach.

CNSL 60B	COLLEGE SUCCESS: COMPETITION	1 Unit
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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
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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 80 WOMEN'S ISSUES 3 Units**Three hours lecture.**

Examination of issues, through personal analysis and group process, concerning a woman's self-development and interpersonal relationships.

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.****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**Advisory: CRLP 70. Pass/No Pass.****One hour lecture.**

Designed to improve student understanding of the requirements for and transition process to the four-year college and university system, and to facilitate this transition.

CNSL 86 LEADERSHIP: THEORIES, 1 Unit**CNSL 86X STYLES & REALITIES 2 Units****CNSL 86Y 3 Units****Advisory: Eligibility for ENGL 110 or ESL 25.**

Any combination of CNSL 86, 86X & 86Y may be taken for a maximum of six units.

One hour lecture.

Introduction to the dynamics of working groups and the impact of leadership on the effectiveness of groups; examination of the linkage between concepts and theories of leadership to the everyday functioning of student organizations; understand the role played by structure and governance models in organizational effectiveness.

CNSL 86LX LEADERSHIP LABORATORY 1 Unit**CNSL 86LY 2 Units****CNSL 86LZ 3 Units**

Any combination of CNSL 86LX, 86LY & 86LZ may be taken for a maximum of 18 units.

Three hours laboratory.

Practical field experience for students in campus leadership positions, related to material being presented in CNSL 86.

CNSL 90 INTRODUCTION TO ONLINE LEARNING 1 Unit**Advisory: Familiarity with an Internet Browser and E-mail.****One hour lecture, two hours terminal time.**

This course covers concepts, tools and techniques for success in online learning. Through self-assessment, Online interaction, and use of the various tools and resources of the Internet the student will develop an understanding of the skills needed to be successful when engaging in online instruction.

CNSL 200L INTRODUCTION TO COLLEGE LABORATORY .5 Unit**Non-degree applicable credit course.****Advisory: Pass/No Pass.****One hour laboratory.**

Web based activities to expand understanding of Foothill College resources and services. This course will enhance understanding of concepts and skills used in CNSL 50.

CREATIVE WRITING**Language Arts Division****(650) 949-7250****www.foothill.edu/la/****CRWR 6 INTRODUCTION TO CREATIVE WRITING 5 Units****Prerequisite: Eligibility for ENGL 1A.****Five hours lecture, one hour laboratory.**

Explicit instruction and practice in writing poetry and short fiction. Assignments include reading, analyzing and responding to published and student work and writing original work. Analysis of public readings and/or interviews with writers. Lecture and workshop. [CAN ENGL 6]

CRWR 34 HONORS INSTITUTE SEMINAR IN CREATIVE WRITING 1 Unit**Prerequisite: Membership in the Honors Institute. Eligibility for ENGL 1A.****One hour lecture.**

A seminar in directed readings, discussions and projects in creative writing. Specific topics to be determined by the instructor.

CRWR 36B PLAYWRITING 4 Units**Advisory: Not open to students with credit in VART 5B, DRAM 5B.****May be taken six times for credit.****Four hours lecture, one hour laboratory.**

Introduction to writing for the stage. Examination and practice of story structure, character development, dialogue crafting, with an emphasis on understanding the unique visual and imaginative nature of writing for the theatre.

CRWR 36C SCREENPLAY WRITING 4 Units**Advisory: Not open to students with credit in F TV 5C, DRAM 5C.****May be taken six times for credit.****Four hours lecture, one hour laboratory.**

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.

CRWR 39A INTRODUCTION TO SHORT FICTION WRITING 5 Units**Prerequisite: Eligibility for ENGL 1A.****May be taken two times for credit.****Five hours lecture, one hour laboratory.**

Explicit instruction and practice in writing a variety of short fiction forms, including short narratives, flash fiction, and traditional short stories. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Lecture and workshop. Analysis of public readings and/or interviews with writers.

CRWR 39B ADVANCED SHORT FICTION WRITING 5 Units**Prerequisite: CRWR 39A.****May be taken two times for credit.****Five hours lecture, one hour laboratory.**

Explicit instruction and practice in writing a variety of short fiction forms, including short narratives, flash fiction, and traditional short stories. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Class presentations and workshop leadership. Lecture and workshop. Analysis of public readings and/or interviews with writers.

CRWR 40 INTRODUCTION TO WRITING THE NOVEL 5 Units**Prerequisite: Eligibility for ENGL 1A****May be taken four times for credit.****Five hours lecture, one hour laboratory.**

Explicit instruction and practice in writing sequenced chapters for a novella or a novel. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Lecture and workshop. Analysis of public readings and/or interviews with writers.

CRWR 41A POETRY WRITING 5 Units**Prerequisite: Eligibility for ENGL 1A.****May be taken two times for credit.****Five hours lecture, one hour laboratory.**

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. May be taken two times for credit. Five hours lecture, one hour laboratory. Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work. Class presentations and workshop leadership. Lecture and workshop.		Prerequisite: DA 53A. One hour lecture, three hours laboratory. Intraoral techniques continued; evaluation of film quality, recognition of anomalies and variations in tissue density, specialized procedures for the pedodontic, endodontic, and edentulous patient, forensic and legal considerations, and principles of panoramic and cephalometric film.	
CRWR 60 MEMOIR WRITING	5 Units	D A 53C DENTAL RADIOGRAPHY	1 Unit
Prerequisite: Eligibility for English 1A May be taken four times for credit. Five hours lecture, one hour laboratory. Explicit instruction and practice in writing memoir and autobiography. 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.		Prerequisite: DA 53A and 53B. Three hours laboratory. Intraoral techniques and film evaluation continued; film interpretation for dental charting; introduction to short cone and bisecting angle radiographic techniques.	
CRWR 120A CREATIVE WRITERS CONFERENCE	1 Unit	D A 56 DENTAL HEALTH EDUCATION	1 Unit
Advisory: Pass/No Pass May be taken three times for credit. Three hours laboratory. An intensive writing workshop covering: critical assessment of student writing; marketing literary work; lectures by guest faculty; group and individual manuscript sessions. Emphasis and topics change each year.		One hour lecture, one hour field study. Principles of patient motivation and education; etiology, process and prevention of dental decay and periodontal disease; design and management of a plaque control program, brushing, flossing, adjunctive aids; dietary counseling.	
DENTAL ASSISTING		D A 57 OFFICE EMERGENCY PROCEDURES	2 Units
Biological & Health Sciences Division www.foothill.edu/bio/programs/dentala/	(650) 949-7351	Two hours lecture. 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 50 ORIENTATION TO DENTAL ASSISTING	2.5 Units	D A 58 SPECIALITY PRACTICE PROCEDURES	1 Unit
Two and one-half hours lecture, one hour collaborative learning. Preview of dental practice, including specialties, history, professional and legal responsibilities and the role of the dental auxiliary; dental forms, record keeping, patient communication and office personnel relations.		One hour lecture. Familiarization with the scope of practice in both general and specialty dental office settings. The emphasis of this survey class will be on the role of the auxiliary personnel in each of the different types of dental practices.	
D A 51A INTRODUCTION TO CHAIRSIDE DENTAL ASSISTING	5.5 Units	D A 60A DENTAL OFFICE BUSINESS PRACTICES	2 Units
Two and one-half hours lecture, one hour seminar, nine hours laboratory, eight hours field experience. Introduction to chairside assisting; use and care of dental equipment, patient management, instrument identification; overview of common dental procedures such as composite, amalgam, partials, dentures, root canals, crown and bridge appointments; manipulation of dental materials commonly prepared or used by the dental assistant including temporary dressings, impression materials, cement bases and liners, topical agents, composites, resins and amalgams.		Two hours lecture, one hour laboratory. 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 51B INTERMEDIATE CLINICAL DENTAL ASSISTING	2 Units	D A 60B DENTAL OFFICE BUSINESS PRACTICES	3 Units
One and one-half hours lecture, two hours laboratory. Continuation of techniques introduced in DA 51A; periodontal and oral surgery procedures. Registered Dental Assistant orthodontic functions, fabrication of bleaching splints, dental sealants.		Three hours lecture, one hour laboratory. Introduction to purchasing, inventory and cost control; banking, payroll and tax procedures; resume writing and interviewing techniques. Includes billing and insurance procedures, collection of accounts, treatment plans and case presentations, bookkeeping and accounting procedures. Instruction in both manual and computer applications.	
D A 51C ADVANCED DENTAL ASSISTING SKILLS	3 Units	D A 61 ULTRASONIC SCALING FOR THE RDA	1.5 Units
Two and one-half hours lecture, four hours laboratory. Continuation of techniques introduced in DA 51A and 51B to include pulp vitality testing, fluoride administration, intraoral/extraloral exam, polishing removable partial and full dentures, dental implants, and pedodontic procedures. Theory and practice of coronal polishing.		Prerequisite: DA 51A, 51B, or equivalent. One hour lecture, one and one-half hours laboratory. Theory and practice of the Ultrasonic Scaler in removing excess supragingival cement from the coronal surfaces of the teeth undergoing orthodontic treatment.	
D A 53A INTRODUCTION TO RADIOGRAPHY	3 Units	D A 62A DENTAL SCIENCES	2 Units
Prerequisite: Admission to Dental Assisting Program. Two hours lecture, three hours laboratory. Production, characteristics, and biologic effects of radiation; function, components, and operation of the X-ray unit; radiation protection and monitoring; chemistry and techniques associated with X-ray film and developing solutions. Review of anatomic landmarks, introduction to intraoral long-cone radiographic techniques in the bitewing, periapical and occlusal surveys.		Three hours lecture, one hour laboratory. 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.	
D A 53C DENTAL RADIOGRAPHY	1 Unit	D A 62B DENTAL SCIENCES	2 Units
Prerequisite: DA 53A and 53B. Three hours laboratory. Intraoral techniques and film evaluation continued; film interpretation for dental charting; introduction to short cone and bisecting angle radiographic techniques.		Two hours lecture. An overview of the embryologic development of the structures and tissues of the head, neck, teeth and oral cavity, histology of the hard and soft tissues of the oral cavity. Developmental and structural defects involving the oral cavity and the teeth. Periodontal diseases, caries process and oral pathology.	
D A 62C DENTAL SCIENCES	2 Units	D A 62D DENTAL SCIENCES	2 Units
		Two hours lecture. Microbiologic and nutritional conditions related to dentistry; etiology, symptoms, transmission and control of infective and contagious diseases, nutritional physiology, and counseling, effect of nutrition on general dental health. Pharmacology of local anesthetic solutions, analgesic gases, and psychosedatives, and antibiotic agents. Use of nitrous oxide equipment.	

D A 63	SPECIAL PATIENT POPULATIONS	1 Unit	D H 52B	ORAL BIOLOGY	3 Units					
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	Two hours lecture, two hours laboratory.							
One and one-half hour lecture, one hour field study.										
Introduction to infectious diseases important to dentistry. Instruction on disinfection, instrument decontamination, sterilization procedures and tray set-up preparation. Regulatory compliance agencies such as OSHA, CDC and ADA recommendations. Hazardous materials management and waste management. Protocols and emergency procedures for hazardous and biohazardous waste or materials.										
D A 73	DENTAL ASSISTING SUPERVISED CLINIC	3 Units	D H 53	ASSESSMENT PROCEDURES IN THE DENTAL HYGIENE PROCESS	4 Units					
Prerequisite: DA 51A.										
16 hours clinic, two hours field study.										
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.										
D A 74	DENTAL ASSISTING CLINICAL PRACTICE	3 Units	D H 54	PRE-CLINICAL DENTAL HYGIENE	4 Units					
17 hours clinic, two hours field study.										
Continuation of techniques introduced in DA 51A, 51B and 73; supervised clinical experience in externship environment; advanced and specialty chair side procedures.										
D A 85	RDA REVIEW	1 Unit	Prerequisite: Admission to Dental Hygiene Program.							
Prerequisites: DA 51A and 51B.										
May be taken three times for credit.										
One hour lecture, three hours laboratory, two hours field study.										
Information necessary for completion of requirements for national certification and Registered Dental Assisting (RDA) licensure in the State of California. Review of chairside dental assisting procedures to prepare for written and practical examinations. Sizing of stainless steel crowns. Fabrication of temporary crowns and Class II temporary restorations.										
D A 190	DIRECTED STUDY	.5 Unit	D H 55A	FUNDAMENTALS OF PATHOLOGY	2 Units					
D A 190X		1 Unit	Corequisite: D H 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.										
Any combination of D A 190, 190X, 190Y & 190Z may be taken for a maximum of six units.										
One-half hour lecture, one and one-half hours laboratory.										
For students who desire or require additional help in attaining comprehension and competency in learning skills.										

DENTAL HYGIENE

Biological & Health Sciences Division	(650) 949-7335		D H 55B	FUNDAMENTALS OF PATHOLOGY	2 Units
www.foothill.edu/bio/programs/dentalh/					
D H 50					
ORIENTATION TO DENTAL HYGIENE					
Prerequisite: Admission to Dental Hygiene Program.					
One and one-half hours lecture-laboratory.					
Overview of dental hygiene as a career. Dental terminology, introduction to instrumentation skills, including: modified pen grasp, fulcrums, adaptation, insertion and activation of the explorer. The course will involve some online work, observation in clinic, and instrumentation on typodonts.					
D H 52A	ORAL BIOLOGY	3 Units	D H 56	APPLIED PHARMACOLOGY IN DENTISTRY	2 Units
Prerequisite: Admission to Dental Hygiene Program.					
Two hours lecture, two hours laboratory.					
Discussion of the anatomy and identification of the teeth, the eruption sequence, normal occlusion, and classification of occlusion. Anatomy of the skull, arteries, veins, and lymphatics, musculature and nervous structures of the head and neck.					
D H 52B	PERIODONTICS	2 Units	D H 57A	PERIODONTICS	2 Units
Prerequisite: D H 52B.					
Two hours lecture.					
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 57B	PERIODONTICS	2 Units	D H 57B	PERIODONTICS	2 Units
Prerequisite: D H 57A.					
Two hours lecture.					
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.					
D H 57C	PERIODONTICS	2 Units	D H 57C	PERIODONTICS	2 Units
Prerequisite: D H 57B.					
Two hours lecture.					
Emphasis on periodontal surgeries and treatment. Role of the hygienist in nonsurgical therapy, periodontal surgical therapy, and periodontal maintenance therapy.					

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, one hour field experience.			One hour lecture, 19 hours clinic, three hours field experience.		
Dental Procedures in the specialty office with emphasis on dental auxiliary 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
Prerequisite: Admission to Dental Hygiene Program.			Prerequisite: DH 62B.		
One hour lecture.			One hour lecture, 19 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
Prerequisite: Completion of D H 60A.			Prerequisite: DH 62C.		
Three hours laboratory.			One hour lecture, 19 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: D H 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
Prerequisite: Admission to Dental Hygiene Program.			Prerequisite: DH 63C.		
One hour lecture.			Two hours lecture, eight 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 developing a community dental health program, evaluation of local, state, and federal departments of public health service, research and statistics in public health, and meeting the demand for dental health care.		
D H 60E	DENTAL RADIOGRAPHY	.5 Unit	D H 64	ETHICS, LAW & DENTAL OFFICE PRACTICES	2 Units
Prerequisite: DH 60D.			Advisory: DH 63D.		
One hour lecture-laboratory.			Two hours lecture.		
Continuation of film exposure, processing and mounting; group-individual evaluation and interpretations of film.			Ethics, jurisprudence and practice aspects of private practice.		
D H 61A	CLINICAL TECHNIQUE	5 Units	D H 65	CLINICAL LOCAL ANESTHESIA	2.5 Units
Prerequisites: Completion of DH 52A and 54 or completion of a dental hygiene program with equivalent courses.			Prerequisites: Completion of DH 55A, 61B, or completion of dental hygiene program with equivalent courses. Possession of current CPR certificate.		
Three hours lecture, nine hours laboratory, three hours field experience.			Two hours lecture, one and one-half hours laboratory.		
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.			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 61B	INTRODUCTION TO CLINIC	4 Units	D H 66	SOFT TISSUE CURETTAGE	1 Unit
Prerequisite: Completion of DH 61A and 52B. Possession of a current CPR certificate.			Prerequisite: DH 65.		
Three hours lecture, six hours clinic, three hours field experience.			One hour lecture.		
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.			Training for the dental hygiene student or dental hygienist in performing soft tissue curettage.		
D H 62A	CLINICAL DENTAL HYGIENE	2.5 Units	D H 67	NITROUS OXIDE/OXYGEN ANALGESIA	1 Unit
Prerequisite: DH 61B.			Prerequisite: DH 66.		
Two hours lecture, nine hours clinic, one hour field experience.			Two hours lecture-laboratory.		
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.			Training for the dental hygiene student or dental hygienist in performing nitrous oxide/oxygen analgesia.		

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.		May be taken six times for credit.	
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.		One hour lecture.	
D H 68B RADIOGRAPHIC INTERPRETATION B	1 Unit	D H 86 CALIFORNIA STATE BOARD PREPARATION	1 Unit
Prerequisite: DH 60A.		Prerequisite: Completion of DH 62 D or equivalent.	
One hour lecture.		Advisory: Pass/No Pass.	
Advanced radiographic interpretation utilizing intraoral panoramic, cephalometric, and other extraoral radiographs. Discussion of future trends in radiographic imaging.		May be taken two times for credit.	
D H 71 OFFICE EMERGENCY PROCEDURES	2 Units	D H 190 DIRECTED STUDY	.5 Unit
Prerequisite: Admission to Dental Hygiene Program.		D H 190X	1 Unit
Advisory: Not open to students with credit in DA 57.		D H 190Y	1.5 Units
Two hours lecture.		D H 190Z	2 Units
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.		Advisory: Pass/No Pass.	
D H 72 DENTAL MATERIALS	3 Units	Any combination of D H 190, 190X, 190Y & 190Z may be taken for a maximum of six units.	
Prerequisite: Admission to Dental Hygiene Program.		One-half hour lecture, one and one-half hours laboratory.	
Two hours lecture, three hours laboratory.		For students who desire or require additional help in attaining comprehension and competency in learning skills. May include off-campus clinical rotations.	
D H 73 DENTAL HEALTH EDUCATION	2 Units	D H 200L INTRODUCTION TO DENTAL HYGIENE	1.5 Units
Advisory: DH 53, PSYC 1.		Three hours lecture-laboratory.	
Two hours lecture.		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.	
D H 75A CLINICAL DENTAL HYGIENE THEORY	1 Unit	DIAGNOSTIC MEDICAL SONOGRAPHY	
Corequisite: Concurrent enrollment in the Dental Hygiene Program.		Biological & Health Sciences Division	(650) 949-7249
One hour lecture, three hours laboratory.		www.foothill.edu/bio/programs/ultra/	
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 D H 62B.		DMS 50A DIAGNOSTIC MEDICAL SONOGRAPHY PRINCIPLES & PROTOCOLS	4 Units
D H 75B CLINICAL DENTAL HYGIENE THEORY	1.5 Units	Prerequisite: Admission to Diagnostic Medical Sonography Program.	
Corequisite: Concurrent enrollment in Dental Hygiene Program.		Four hours lecture.	
One hour lecture, three hours laboratory.		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.	
D H 75C CLINICAL DENTAL HYGIENE THEORY	1.5 Units	DMS 50B SONOGRAPHY & PATIENT CARE	2 Units
Corequisite: Concurrent enrollment in the Dental Hygiene program.		Prerequisite: Admission to Diagnostic Medical Sonography Program.	
One hour lecture, three hours laboratory.		Two hours lecture.	
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.		This course is designed to define the student sonographer's role on the medical team. It prepares the student to enter the clinical environment including instruction in sonographer safety and ergonomics. Legal, ethical, legislative and regulatory issues including scope of practice and standards. Patient care techniques, clinical assessment, diagnosis and treatment. Interacting with cultural, age, and the special needs populations. Professionalism, competency-based education, and leadership	
DMS 51A SECTIONAL ANATOMY	3 Units	DMS 51A SECTIONAL ANATOMY	3 Units
Prerequisite: BIOL 40A,B,C or equivalent. Some background with Medical Terminology or equivalent. Health Care Professional or student of Allied Health occupation.		Prerequisite: BIOL 40A,B,C or equivalent. Some background with Medical Terminology or equivalent. Health Care Professional or student of Allied Health occupation.	
Three hours lecture, one hour case study.		Three hours lecture, one hour case study.	
Sectional human anatomy for health care professionals, students of Allied Health and nursing professions. Emphasis on transverse, coronal and sagittal planes and correlation to other imaging modalities. Discussions include pathology-related alterations to sectional anatomy images.		Sectional human anatomy for health care professionals, students of Allied Health and nursing professions. Emphasis on transverse, coronal and sagittal planes and correlation to other imaging modalities. Discussions include pathology-related alterations to sectional anatomy images.	

DMS 52A	PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY	3 Units	DMS 56B	ADVANCED APPLICATIONS OF VASCULAR TECHNOLOGY	3 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.			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 three times for credit.		
principles of diagnostic ultrasound, transducers and beam dynamics, pulse-echo instrumentation and display systems, review of mathematical skills.			Three hours lecture.		
DMS 52B	PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY	3 Units	Instruction includes the advanced principles & theory of noninvasive vascular technology. This course will focus on a comprehensive study of arterial, venous and cerebrovascular evaluations. It is designed to help prepare individuals for the National Board for credentialing as a Registered Vascular Technologist.		
Prerequisite: DMS 52A.					
Three hours lecture.					
A continuation of Physical Principles I with an emphasis on advanced principles in medical ultrasound instrumentation, hemodynamics, bioeffects, artifacts and sonographic quality control procedures.					
DMS 53A	DIAGNOSTIC MEDICAL SONOGRAPHY	2 Units	DMS 60A	CRITIQUE & PATHOLOGY	2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.			Prerequisite: Admission to the Diagnostic Medical Sonography Program.		
Two hours lecture, one and one-half hours internet skills.			Two hours lecture, two hours internet research.		
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.			Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Emphasis on communication skills via written and oral case presentations and critiques.		
DMS 53B	DIAGNOSTIC MEDICAL SONOGRAPHY	2 Units	DMS 60B	CRITIQUE & PATHOLOGY	1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.			Prerequisite: Admission to Diagnostic Medical Sonography Program.		
Two hours lecture, one and one-half hours internet skills.			One hour lecture, one hour internet research.		
Anatomy and physiology related to major and superficial structures and organs including sonography of abdominal organs and superficial structures. Assessment including physical, clinical symptoms, laboratory findings, and pathology including the sonographic appearances. Scanning protocols, technical factors and image quality.			Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on abdominal subjects.		
DMS 53C	DIAGNOSTIC MEDICAL SONOGRAPHY	2 Units	DMS 60C	CRITIQUE & PATHOLOGY	1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.			Prerequisite: Admission to the Diagnostic Medical Sonography Program.		
Two hours lecture, one and one-half hours internet skills.			One hour lecture, one hour internet research.		
Anatomy, physiology and pathology of abdominal organs not yet covered, neurosonography, superficial structures, transplant, 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.			Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on gynecological subjects.		
DMS 54A	GYNECOLOGY	2 Units	DMS 60D	CRITIQUE & PATHOLOGY	1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.			Prerequisite: Admission to the Diagnostic Medical Sonography Program.		
Two hours lecture, one hour internet skills.			One hour lecture, one hour internet research.		
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.			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 55A	OBSTETRICS	2 Units	DMS 60E	CRITIQUE & PATHOLOGY	1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.			Prerequisite: Admission to the Diagnostic Medical Sonography Program.		
Two hours lecture, one hour internet skills.			One hour lecture, one hour internet research.		
Normal fetal growth and sonographic measurements with correlation to accepted standards. Development of the placenta, amniotic fluid and cord. Abnormalities, pathology and maternal complications.			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 55B	OBSTETRICS	2 Units	DMS 70A	CLINICAL PRECEPTORSHIP	8.5 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.			Prerequisite: DMS 72A.		
Two hours lecture, one hour internet skills.			35 hours laboratory, three hours collaborative learning.		
Advanced obstetrical sonography. Abnormal fetal growth and sonographic measurements with correlations to accepted standards. Abnormalities, pathology and maternal complications.			A continuation of DMS 72A. This preceptorship is to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The major emphasis is on abdominal and gynecological examinations as to delineate complete anatomic and functional information for interpretation.		
DMS 56A	VASCULAR SONOGRAPHY	3 Units	DMS 70B	CLINICAL PRECEPTORSHIP	8.5 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program			Prerequisite: DMS 70A.		
Three hours lecture.			35 hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning.		
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.			Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The student is exposed to varied methodologies and practice philosophies in a variety of clinical settings. The major emphasis is on obstetrics, gynecology, and higher level of abdominal examinations.		
DMS 70C	CLINICAL PRECEPTORSHIP	8 Units	DMS 70C	CLINICAL PRECEPTORSHIP	8 Units
Prerequisite: DMS 70B.			Prerequisite: DMS 70B.		
32 hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning.			32 hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning.		
Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The major emphasis is on advanced abdominal, obstetrics, and vascular sonography.			Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The major emphasis is on advanced abdominal, obstetrics, and vascular sonography.		

DMS 70D CLINICAL PRECEPTORSHIP	8 Units	DRAM 2A INTRODUCTION TO DRAMATIC LITERATURE	4 Units
Prerequisite: DMS 70C. 32 hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning. Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on the advanced mastery of knowledge, skills, and abilities required performing all types of sonographic studies and procedures. The major emphasis is on terminal competencies leading to program completion.		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.	
DMS 70E CLINICAL PRECEPTORSHIP	8.5 Units	DRAM 2B INTRODUCTION TO DRAMATIC LITERATURE	4 Units
Prerequisite: DMS 70D. 32 hours laboratory, one hour internet skills, one hour multimedia, one hour collaborative learning. Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on the advanced mastery of knowledge, skills, and abilities required performing all types of sonographic studies and procedures.		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.	
DMS 72A DIAGNOSTIC MEDICAL SONOGRAPHY PROCEDURES & APPLICATIONS	6 Units	DRAM 2C INTRODUCTION TO DRAMATIC LITERATURE	4 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program. One hour lecture, 15 hours laboratory Instruction to develop the fundamental skills, procedures and applications for sonographic image acquisition. Includes instruction in establishing technical quality parameters, interpretation and analysis, as well as case presentation. Includes hands-on participation in a structured lab setting with emphasis on simulation and live scanning exercises.		Prerequisite: Eligibility for ENGL 1A. Advisory: Not open to students with credit in ENGL 42C. Four hours lecture. Analysis of representative masterpieces of dramatic literature from the beginning of the 20th Century to the present.	
DMS 72E DIAGNOSTIC MEDICAL SONOGRAPHY PROCEDURES & APPLICATIONS	2 Units	DRAM 5B PLAYWRITING	4 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program. One hour lecture, three hours laboratory. Advanced proficiency levels toward image acquisition, implementing technical quality, interpretation and 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.		Formerly: DRAM 55B Advisory: Not open to students with credit in VART 5B or CRWR 36B. Four hours lecture, one hour laboratory. Introduction to writing for the stage. Examination and practice of story structure, character development, dialogue crafting, with an emphasis on understanding the unique visual and imaginative nature of writing for the theatre.	
DMS 80A ADVANCED SONOGRAPHIC PRINCIPLES	3 Units	DRAM 6 ADVANCED PLAYWRITING	4 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program. Completion of all prior didactic and clinical practicum courses required in the Diagnostic Medical Sonography Program. Three hours lecture, three hours research. Continuation of all courses as well as new developments with advanced analysis of current sonographic practice. Student presentation and critique of neoplastic cases. Information necessary for completion and participation of national registry examination.		Prerequisite: DRAMA 5B May be taken six times for credit. Four hours lecture, one hour laboratory. Writing for the stage. Advanced examination and practice of story structure, character development, dialogue crafting, with an emphasis on understanding the unique visual and imaginative nature of writing for the theatre.	
DMS 190 DIRECTED STUDY	.5 Unit	DRAM 7 INTRODUCTION TO DIRECTING	4 Units
DMS 190X	1 Unit	May be taken three times for credit. Three hours lecture, three hours laboratory.	
DMS 190Y	1.5 Units	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.	
DMS 190Z	2 Units		
Advisory: Pass/No Pass Any combination of DMS 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit. One-half hour lecture, one and one-half hours laboratory. For students who desire or require additional help in attaining comprehension and competency in learning skills.			
DRAM 8 MULTICULTURAL MOSAIC OF PERFORMING ARTS IN AMERICA	4 Units		
Four hours lecture, one hour laboratory. A comparative study examining the important post-modern American performance movements from the 1950's to the present day examining the specific cultural traditions of these unique performances. Focus will concentrate on the performance artists and major influences of African Americans, Asian Americans, Native Americans, European Americans, and Chicano/Latino Americans.			
DRAM 20A PRINCIPLES OF ACTING	3 Units		
Advisory: Concurrent enrollment in DRAM 20AL. 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. Introduction to the craft of acting, including theory and technique emphasizing body movement, voice production, articulation, characterization principles of motivation, and scene analysis. [CAN DRAM 8 = DRAM 20A+20B]			
DRAM 20AL ACTING LABORATORY	1 Unit		
Corequisite: Concurrent enrollment in DRAM 20A. Three hours laboratory. Supervised study and rehearsal in acting projects. Three hours supervised practice.			

DRAMA

Fine Arts & Communication Division (650) 949-7130
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DRAM 1 THEATRE ARTS APPRECIATION 4 Units

Four hours lecture, one hour laboratory.

Study the status of live theatre and its historical, cultural and spiritual roots and while also applying the relationship between theatre and the electronic media. [CAN DRAM 18]

DRAM 20A PRINCIPLES OF ACTING 3 Units
Advisory: Concurrent enrollment in DRAM 20AL. 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.
Introduction to the craft of acting, including theory and technique emphasizing body movement, voice production, articulation, characterization principles of motivation, and scene analysis. [CAN DRAM 8 = DRAM 20A+20B]

DRAM 20AL ACTING LABORATORY 1 Unit
Corequisite: Concurrent enrollment in DRAM 20A.
Three hours laboratory.
Supervised study and rehearsal in acting projects. Three hours supervised practice.

DRAM 20B PRINCIPLES OF ACTING	3 Units	DRAM 21C FUNDAMENTALS OF THEATRE PRODUCTION	4 Units
Prerequisite: DRAM 20A.		May be taken four times for credit.	
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. Concurrent enrollment in DRAM 20BL recommended. Six hours lecture-laboratory.		Six hours lecture-laboratory, three hours laboratory.	
Further development of concepts introduced in DRAM 20A, emphasizing improvisation and theatre games. [CAN DRAM 8 = DRAM 20A+20B]		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.	
DRAM 20BL ACTING LABORATORY	1 Unit	DRAM 21D CONSERVATORY THEATRE PRODUCTION	1 Unit
Corequisite: DRAM 20B.		Maybe repeated six times for credit.	
Three hours laboratory.		Two hours lecture-laboratory.	
Supervised study and rehearsal in acting projects. Three hours supervised practice.		Introduction to the theory and practice of play production: planning, design, execution, rehearsal and management. Practical experience in staging dramatic presentations, including the use of theatre equipment, set construction, painting, properties, costumes, lighting, theatre management and publicity.	
DRAM 20C PRINCIPLES OF ACTING	3 Units	DRAM 24 READERS THEATRE	4 Units
Prerequisite: DRAM 20A and 20B.		Advisory: Not open to students with credit in COMM 24.	
Advisory: Concurrent enrollment in DRAM 20CL recommended. Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20CL for 1 unit. Six hours lecture-laboratory.		May be taken six times for credit.	
Further development of concepts introduced in DRAM 20A and 20B with focus on the performance of selected scenes from plays of various classical periods to acquaint students with the breadth of theatre performance literature. Transfers to CSU.		Three hours lecture, three hours laboratory.	
Selection and practice of individual and group readings from various types of literature, employing a range of vocal skills, and presented in a dramatic context.			
DRAM 20CL ACTING LABORATORY	1 Unit	DRAM 30 ORAL INTERPRETATION	4 Units
Corequisite: DRAM 20C.		Three hours lecture, three hours laboratory.	
Three hours laboratory.		The techniques of selection, comprehension, interpretation, and performance of prose, poetry, and dramatic literature.	
Supervised study and rehearsal in acting projects. Three hours supervised practice.			
DRAM 20D PRINCIPLES OF ACTING	3 Units	DRAM 34 HONORS INSTITUTE SEMINAR IN THEATRE ARTS	1 Unit
Prerequisite: DRAM 20A, 20B and 20C.		Prerequisite: Membership in the Honors Institute.	
Advisory: Concurrent enrollment in DRAM 20DL recommended. Students taking this course to satisfy A.A. degree and the transfer General Education requirement in humanities must concurrently enroll in DRAM 20DL for 1 unit. Six hours lecture-laboratory.		One hour lecture.	
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.		A seminar in directed readings, discussions and projects in theatre arts.	
DRAM 20DL ACTING LABORATORY	1 Unit	DRAM 35 DEPARTMENT HONORS PROJECTS IN DRAMA	2 Units
Corequisite: DRAM 20D.		Prerequisite: Audition/interview with instructor.	
Three hours laboratory.		May be taken six times for credit.	
Supervised study and rehearsal in acting projects. Three hours supervised practice.		Six hours laboratory.	
Individual advanced projects in acting, theatre production, stage craft, design or theatre research.			
DRAM 20E PRINCIPLES OF ACTING	3 Units	DRAM 38 MOVEMENT PRACTICUM FOR THE ACTOR	2 Units
Prerequisite: DRAM 20A or 20B.		Prerequisite: Concurrent or past enrollment in the Foothill Theatre Conservatory.	
May be taken six times for credit.		May be taken six times for credit.	
Six hours lecture-laboratory.		One and one-half hours lecture, one and one-half hours laboratory.	
Further development of concepts introduced in DRAM 20A with performance of specific scenes designed to introduce students to a range of dramatic challenges, coupled with ongoing work in improvisation.		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 20EL ACTING LABORATORY	1 Unit	DRAM 40A BASIC THEATRICAL MAKE-UP	4 Units
Corequisite: Concurrent enrollment in DRAM 20E.		Three hours lecture, three hours laboratory.	
May be taken six times for credit.		A practical introduction to the techniques of applying theatrical make-up for the stage. [CAN DRAM 14]	
Three hours laboratory.			
Supervised study and rehearsal in acting projects. Three hours supervised practice.			
DRAM 21A FUNDAMENTALS OF THEATRE PRODUCTION	4 Units	DRAM 40AL THEATRICAL MAKE-UP LABORATORY	1 Unit
Six hours lecture-laboratory, three hours laboratory.		Corequisite: DRAM 40A.	
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.		Three hours laboratory.	
		Supervised study and practice in stage make-up and application techniques.	
DRAM 21B FUNDAMENTALS OF THEATRE PRODUCTION	4 Units	DRAM 40B THEATRICAL MAKE-UP FOR PRODUCTION	4 Units
Six hours lecture-laboratory, three hours laboratory.		Prerequisite: DRAM 40A.	
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.		May be taken two times for credit.	
		Three hours lecture, three hours laboratory.	
		Continuation of work in DRAM 40A with emphasis in practical experience for the stage.	

DRAM 40BL THEATRICAL MAKE-UP LABORATORY	1 Unit	DRAM 49 REHEARSAL & PERFORMANCE	3 Units
Corequisite: DRAM 40B.		DRAM 49X	4.5 Units
Three hours laboratory.		DRAM 49Y	5.5 Units
Supervised study and practice in stage make-up and application techniques.		DRAM 49Z	5.5 Units
DRAM 42A INTRODUCTION TO SCENE DESIGN	4 Units	Advisory: Not open to students with credit in P A 11.	
Three hours lecture, three hours laboratory.		Any combination of DRAM 49, 49X, 49Y, & 49Z may be taken a maximum of 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.		Three hours lecture-laboratory, two hours laboratory.	
DRAM 42B INTERMEDIATE SCENE DESIGN	4 Units	Supervised participation in scheduled productions of the Drama Department, in cast or crew. Enrollment in each course is for the duration of the production.	
Three hours lecture, three hours laboratory.			
Intermediate level of scene design and scenic painting for theatre, opera, and ballet. Complex script research and analysis; complex set design; theatrical sketching, drafting, rendering and model making and the use of computer graphics software and equipment to design scenery.			
DRAM 42C ADVANCED SCENE DESIGN	4 Units	DRAM 51A MUSICAL THEATRE PRODUCTION	4 Units
Three hours lecture, three hours laboratory.		Prerequisite: DRAM 20A (may be taken concurrently).	
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.		Three hours lecture, three hours laboratory.	
DRAM 44 PRODUCTION PROJECTS	5 Units	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.	
Prerequisite: DRAM 20A.			
May be taken six times for credit.			
Four hours lecture, four hours laboratory.		DRAM 51AL MUSICAL THEATRE PRODUCTION LABORATORY	1 Unit
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.		Corequisite: DRAM 51A.	
DRAM 46 VOICE & DICTION	4 Units	Three hours laboratory.	
Advisory: Not open to students with credit in COMM 46.		Supervised study and practice in musical theatre rehearsal and performance.	
Three hours lecture, three hours laboratory.			
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. [CAN DRAM 6]		DRAM 51B ADVANCED MUSICAL THEATRE	4 Units
DRAM 47 SUMMER MUSIC-DRAMA WORKSHOP	3 Units	Prerequisite: DRAM 51A.	
DRAM 47X	5.5 Units	May be taken two times for credit.	
DRAM 47Y	10 Units	Three hours lecture, three hours laboratory.	
Any combination of DRAM 47, 47X & 47Y may be taken a maximum of six times for credit.		Acting theory and practice, vocal production and theatre choreography in the presentation of complex scenes from the musical theatre.	
Nine 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.		DRAM 51BL MUSICAL THEATRE PRODUCTION LABORATORY	1 Unit
DRAM 48 VOICE PRACTICUM FOR THE ACTOR	2 Units	Corequisite: DRAM 51B.	
Prerequisite: Concurrent or past enrollment in the Foothill Theatre Conservatory.		Three hours laboratory.	
May be taken six times for credit.		Supervised study and practice in musical theatre rehearsal and performance.	
One and one-half hours lecture, one and one-half hours laboratory.			
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 53 AUDITIONING FOR THEATRE	4 Units
		Prerequisite: DRAM 20A (may be taken concurrently).	
		May be taken for a maximum of 12 units.	
		Three hours lecture, three hours laboratory.	
		The actor's process in preparation for audition, selection of appropriate audition materials, and presentation of self in various audition settings. Experienced professional actors and directors will be employed to help students explore the psychology and techniques of the audition process.	
DRAM 54 ACTOR'S WORKSHOP			
Prerequisite: DRAM 20C.			
May be taken six times for credit.			
Three hours lecture, three hours laboratory.			
Further development of concepts introduced in Drama 20A, 20B and 20C through incorporating extensive participation in the performance of selected scenes from plays of various types and periods or advanced improvisational techniques.			
DRAM 56A INTRODUCTION TO MIME			
Advisory: Completion of DRAM 20A.			
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			
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			
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	
May be taken six times for credit.		
Two hours lecture, four hours laboratory.		
A directed, systematic examination of selected works of dramatic literature presented on the living stage, with particular emphasis on the contributing production values that make up their presentation. Attendance at outstanding Bay Area theatre companies, discussion and analysis of works seen, presentations by contributing artists. Costs of theatre admission and responsibility for transportation are borne by the student.		
DRAM 62 ACTING FOR FILM & TELEVISION	4 Units	
Prerequisite: DRAM 20A.		
May be taken six times for credit.		
Three hours lecture, three hours laboratory.		
Application of concepts introduced in DRAM 20A with the necessary adaptations required for film and television performance. Work with the commercial, dramatic, documentary and industrial styles currently used in film and television.		
DRAM 71 FUNDAMENTALS OF STAGE MANAGEMENT	4 Units	
Advisory: DRAM 20A or concurrent enrollment in DRAM 21A, 21B, or 21C.		
Four hours lecture.		
An introduction to stage management techniques in form and function for the theatre. Fundamentals of stage management procedures related to the rehearsal process. Practices in production administration through the use of stage management forms.		
DRAM 72 DRAFTING FOR THE THEATRE, FILM & TELEVISION	4 Units	
Prerequisite: DRAM 21A, B or C or concurrent enrollment.		
May be taken three times for credit.		
Three hours lecture, three hours laboratory.		
Survey of drafting techniques for the theatre, film and television. Introduction to the basic elements of graphic expression and techniques used in presenting stage designs for designers and technicians working in the performing arts. Use of instruments, lettering, geometric construction, orthographic projection and technical sketching to present ground plans, elevations and working drawings. Use of computers to draft theatre designs.		
DRAM 73 SCENERY CONSTRUCTION TECHNIQUES	4 Units	
Prerequisite: DRAM 21A, B, or C or concurrent enrollment.		
Three hours lecture, three hours laboratory.		
Principals of scenic studio fabrication in wood, fabric and related materials. Use of power tools, hand tools, pneumatic fastening tools in the cut out, layout and assembly of unframed two-dimensional and framed two- and three-dimensional scenery for theatre, film, video and related arts.		
DRAM 74 THEATRE SOUND DESIGN	4 Units	
Prerequisite: DRAM 21A, B, or C or concurrent enrollment.		
Three hours lecture, three hours laboratory.		
A survey of sound design and technology for the theatre. Use of recording and playback equipment. Exploration of sound design as an artistic element in stage productions. Research in sound control, amplification, acoustics, preparation of sound tracks, use of reinforcement systems, and intercommunication systems.		
DRAM 75 INTRODUCTION TO COSTUME TECHNOLOGY	4 Units	
Advisory: DRAM 21A, 21B or 21C, or concurrent enrollment.		
May be taken three times for credit.		
Three hours lecture, three hours laboratory.		
An introduction to sewing techniques, pattern cutting, costume room equipment and the design and fabrication of costumes for the theatre and stage.		
DRAM 76 INTRODUCTION TO COSTUME DESIGN	4 Units	
Advisory: DRAM 21A, 21B, 21C or 75, or concurrent enrollment.		
May be taken three times for credit.		
Three hours lecture, three hours laboratory.		
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.		
DRAM 77 INTRODUCTION TO LIGHTING DESIGN & TECHNOLOGY	4 Units	
Prerequisite: DRAM 21A, B, or C or concurrent enrollment.		
May be taken three times for credit.		
Three hours lecture, three hours laboratory.		
A survey of lighting design for the theatre, film and television. An introduction to the basic elements of electrical wiring, lighting instruments, lighting control devices, and lighting special effects. Use of computer to design stage lighting. [CAN DRAM 10]		
DRAM 78 THEATRE TECHNOLOGY IN STEEL & RELATED MATERIALS	4 Units	
Prerequisite: DRAM 21A, B, or C or concurrent enrollment.		
Three hours lecture, three hours laboratory.		
The use of steel and other related materials in the fabrication and construction of scenery for the theatre. Students use welding, cutting and brazing techniques as applied to theatrical scenery. Practical experience in the use of all types of metals and metal working tools in the construction and fabrication of stage sets for theatre film and video production.		
DRAM 79 MODEL BUILDING FOR THEATRE, FILM & TELEVISION	4 Units	
Three hours lecture, three hours laboratory.		
A survey of model building techniques for the theatre, film and television. Introduction to the basic tools and materials used to construct and present preliminary and finished design models.		
DRAM 80 RECORDING ARTS I: SOUND REINFORCEMENT	4 Units	
Advisory: Not open to students with credit in MUS 80.		
Two hours lecture, three hours lecture-laboratory, three hours laboratory.		
Introduction to fundamental concepts and techniques of mixing boards, amplifiers, microphones, signal processors and their application to both live and studio sound reinforcement. Basic introduction to computer based recording with Digidesign's Pro Tools. Microphone placement, physics of sound as it relates to recording, sound reinforcement and studio setup techniques.		
DRAM 85 DIRECTED FIELD STUDY IN THEATRE	2 Units	
DRAM 85X	3 Units	
DRAM 85Y	4 Units	
DRAM 85Z	5.5 Units	
Advisory: Pass/No Pass.		
May be taken six times for credit.		
One hour lecture, two hours lecture-laboratory.		
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 95 DRAMA SUMMER STOCK WORKSHOP	3 Units	
DRAM 95X	5.5 Units	
Any combination of DRAM 95 & 95X may be taken a maximum of six times for credit.		
12 hours laboratory.		
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 97	ACTORS' ENSEMBLE	1 Unit
DRAM 97X		2 Units
DRAM 97Y		3 Units
DRAM 97Z		4 Units

Advisory: Pass/No Pass.

Any combination of DRAM 97, 97X, 97Y & 97Z may be taken a maximum of six times for credit.

Four hours laboratory for each unit of credit.

A course in performance and/or rehearsal of varied drama forms designed for places away from the campus theatre. All aspects of theatre may be covered, including acting, lighting, costuming, scene design, set construction and make-up for the theatre. Students will prepare for staged productions for public performance in differing spaces.

DRAM 99	THEATRE WORKSHOP	3 Units
DRAM 99X		5 Units
DRAM 99Y		10 Units

Advisory: Pass/No Pass.

Any combination of DRAM 99, 99X & 99Y may be taken a maximum of six times for credit.

Four hours laboratory for each unit of credit.

A laboratory course in stage production, culminating in a practical theatre production. Areas of study and investigation include acting voice and diction, movement, dance, theatre styles, stage management and stage crafts. Culminates in a full-scale production performed for a public audience.

DRAM 190	DIRECTED STUDY	.5 Unit
DRAM 190X		1 Unit
DRAM 190Y		1.5 Units
DRAM 190Z		2 Units

Any combination of DRAM 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.

One-half hour lecture, three and one-half hours laboratory for each unit of credit.
Directed study for students who desire or require additional help in attaining comprehension and competency in learning skills.

DRAM 191	THEATRE REPERTOIRE PRACTICUM	2 Units
DRAM 191X		3 Units
DRAM 191Y		4 Units
DRAM 191Z		5.5 Units

Advisory: Pass/No Pass.

Any combination of DRAM 191, 191X, 191Y & 191Z may be taken a maximum of six times for credit.

Eight hours laboratory.

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
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Five hours lecture, one hour laboratory.

Fundamental economic concepts; determination of national income and employment; income fluctuation; money and the banking system; government monetary and fiscal policies; current economic problems; economic development; international trade. Economics 1A or Economics 1B may be taken in either order. [CAN ECON 2]

ECON 1B	PRINCIPLES OF MICROECONOMICS	5 Units
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Advisory: MATH 101.

Five hours lecture, one hour laboratory.

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.

ECON 9	POLITICAL ECONOMY	4 Units
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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
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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
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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
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Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in economics. Specific topics to be determined by the instructor.

ECON 35	DEPARTMENT HONORS PROJECTS IN ECONOMICS	1 Unit
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May be taken six times for credit.

One hour lecture.

Seminar in economical readings, research, critical techniques and practice. Specific topics vary.

ECON 36	SPECIAL PROJECTS IN ECONOMICS	1 Unit
ECON 36X		2 Units
ECON 36Y		3 Units
ECON 36Z		4 Units

Any combination of ECON 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.

One hour lecture.

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
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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
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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.

May be taken six times for credit.

Two hours lecture.

The Cyber Teachers Institute uses a highly stimulating format that allows faculty to interact with colleagues on online teaching issues of their choice. Based on the principle that teachers are the experts in teaching, this institute is designed to bring teachers together to learn from each other and exchange teaching innovations and solutions to online teaching problems. The Cyber Teachers Institute is ideal for dedicated educators in search of inspiration and renewal in the love of teaching.

EDUC 102 ADVANCED CYBER TEACHERS INSTITUTE 2 Units
Advisory: Teaching experience recommended; online teaching experience preferred.

Two hours lecture.

Institute focuses on the analysis, selection, and application of methods, tools, and materials that facilitate learning in online instruction. Designed as a practicum experience, this course enables participants to identify and solve challenges in the instructional design or teaching process of their online, hybrid, or Web-enhanced course.

EDUC 103 CURRENT ISSUES IN ONLINE LEARNING 2 Units

Non-degree applicable credit course.

Advisory: Teaching experience recommended. Online teaching experience preferred.

May be taken six times for credit.

Two hours lecture.

Current issues in Online Learning, part of the Cyber Teachers' Institute series. Focuses on deeper analysis of issues, policies, and practice that affect web-based learning such as copyright, fair use, and intellectual property. Designed as a practicum experience, this course enables participants to identify and address emerging hot topics in e-learning.

EDUC 301 INSTRUCTIONAL METHODS & MEDIA 1 Unit
EDUC 301X 2 Units
EDUC 301Y 3 Units
EDUC 301Z 4 Units

Advisory: Pass/No Pass.

Any combination of EDUC 301, 301X, 301Y & 301Z may be taken a maximum of six times for credit.

One hour lecture.

Analysis, selection and application of the methods, media and materials which facilitate learning in subjects commonly taught in the community college with emphasis on culturally diverse student populations; including psychology of skills and learning; motivation; professional/community resources; content preparation, presentation, evaluation.

EMT 304 EMERGENCY MEDICAL TECHNICIAN: BASIC PART A 3 Units

Prerequisite: HLTH 5 or First Responder Course.

Seven hours lecture-laboratory.

This course is designed to instruct a student to the level of Emergency Medical Technician-Basic who serves as a vital link in the chain of the health care team. It is recognized that the majority of prehospital emergency medical care will be provided by the EMT-Basic. This course includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department, or other specialized service. This course is the first of two courses required to be eligible to take the California written and practical exam for certification as an Emergency Medical Technician I.

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, one and one-half hours clinic.

This course is the second of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician - I. Designed to instruct a student to the level of Emergency Medical Technician-Basic who serves as a vital link in the chain of the health care team. It is recognized that the majority of 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/programs/paramed/

EMTP 100A MIC PARAMEDIC PROGRAM: COGNITIVE, AFFECTIVE, PSYCHOMOTOR I 14 Units

Prerequisite: Acceptance into the Paramedic Program.

11 and one-half hours lecture, four and one-half hours lecture-laboratory. Theoretical bases for preparation of candidates wishing to become EMT Paramedics. The paramedic: roles, responsibilities, education, and training, human systems and patient assessment, shock and fluid therapy, introduction to general pharmacology, and medication administration calculations.

EMTP 100B MIC PARAMEDIC PROGRAM: COGNITIVE, AFFECTIVE, PSYCHOMOTOR II 13 Units

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 PROGRAM: COGNITIVE, AFFECTIVE, PSYCHOMOTOR III 12 Units

Prerequisite: Successful Completion of EMTP 100B.

Seven and one-half hours lecture, eight and one-half hours lecture-laboratory. Cognitive, affective, and psychomotor bases for preparation of candidates wishing to become Emergency Medical Technician - Paramedics. Recognition and treatment of: respiratory emergencies, major medical emergencies, special topics, and pediatrics.

EMTP 102 MIC PARAMEDIC PROGRAM: HOSPITAL- CLINICAL EXPERIENCE 3.5 Units

Prerequisite: Successful Completion of EMTP 100A.

May be taken four times for credit.

16 hours clinic.

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.		
May be taken four times for credit.			Advisory: ENGR 27.		
40 hours clinic.			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 IN ENGINEERING	1 Unit
Prerequisite: Successful Completion of EMTP 103A.			ENGR 36X	& TECHNOLOGY (HONORS)	2 Units
May be taken four times for credit.			ENGR 36Y		3 Units
40 hours clinic.			Advisory: Previous experience in engineering.		
Continuation of ambulance field internship. Students will continue to work under the supervision of licensed paramedics.			Any combination of ENGR 36, 36X & 36Y may be taken a maximum of six times for credit.		
EMTP 190	DIRECTED STUDY	.5 Unit	Three hours laboratory.		
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.					
Any combination of EMTP 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.					
Three and one-half hours laboratory, one-half hour lecture.					
For students who desire or require additional help in attaining comprehension and competency in learning skills.					

ENGINEERING

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/psme/

ENGR 6	ENGINEERING GRAPHICS	6 Units	ENGR 37L	CIRCUIT ANALYSIS LABORATORY	2 Units
Four hours lecture, four hours lecture-laboratory.			Corequisite: ENGR 37.		
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.			One hour lecture, three hours laboratory.		
			Practical verification of theorems and concepts learned in ENGR 37 (Circuit Analysis) through experimentation. Included will be experiments in DC and AC circuits involving the utilization of a variety of instruments such as DC/AC meters, regulated power supplies, signal generators, oscilloscopes and frequency counters. [CAN ENGR 6 = ENGR 37+37L]		
ENGR 20	INTRODUCTION TO ENGINEERING	4 Units	ENGR 38	SEMICONDUCTOR DEVICES & CIRCUITS	5 Units
Prerequisite: MATH 101.			Prerequisites: ENGR 37.		
Advisory: ENGL 110, or ESL 25 .			Five hours lecture, one-hour lab lecture, two hours laboratory.		
Three hours lecture, three hours laboratory.			Fundamental semiconductor theory, device,s materials and design. Introduction to the operation of several semiconductor devices, analysis of analog and digital circuits using solid-state devices, including circuits with diodes, transistors, operational amplifiers, small signal equivalent circuits, CMOS logic gates, and introduction of logic circuits.		
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.			One hour lecture.		
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.		
A seminar in directed readings, discussions and projects in engineering. Specific topics to be determined by the instructor.					
ENGR 76	INTRODUCTION TO NANOTECHNOLOGY	5 Units	ENGR 101	BASIC SKILLS IN THE WORKPLACE	2 Units
Prerequisite: CHEM 30A or equivalent, PHYS 10 or equivalent, and BIOL 10 or equivalent.			One hour lecture, two hours lecture-laboratory.		
Advisory: College level Chemistry or equivalent.			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.		
Introduction to the underlying principles and applications of the emerging field of nanotechnology. Intended for a multidisciplinary audience with a variety of backgrounds. Introduces scientific principles and theory relevant at the nanoscale dimension. Discusses current and future nanotechnology applications in engineering and materials, physics, chemistry, biology, electronics and computing, and medicine.					

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, CAN ENGL SEQ A = ENGL 1A+1B]**

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, CAN ENGL SEQ A = ENGL 1A+1B]**

ENGL 1C ADVANCED COMPOSITION 4 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.

ENGL 7 NATIVE AMERICAN LITERATURE 4 Units

Advisory: Eligibility for ENGL 1A/ESL 26.

Four hours lecture.

Introduction to the history, development, and diversity of Native American literatures from pre-contact civilizations to present-day tribal cultures. Readings in traditional creation myths, songs, and stories from a variety of tribal cultures; nineteenth and twentieth century autobiographical narratives; and significant works of fiction, poetry, and non-fiction prose by contemporary Native American authors. Emphasis on the specific religious, linguistic, historical, political and cultural context of Native American literary achievements.

ENGL 8 CHILDREN'S LITERATURE 4 Units

Advisory: Eligibility for ENGL 1A.

Four hours lecture.

A survey of children's literature from many periods and cultures, including classics, picture books, folktales, fairy tales, biography, poetry, fantasy and fiction. Emphasis on the ideas, didactic and sociological, reflecting relationships among cultures in America included in books usually read by children. Special emphasis on books that explore the cross-cultural influences of our shared oral tradition and folklore as well as the issues arising from a diverse mix of cultures in the U.S..

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. **[CAN ENGL 20]**

ENGL 12 AFRICAN AMERICAN LITERATURE 4 Units

Advisory: Eligibility for ENGL 1A.

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.

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.

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.

ENGL 22 WOMEN WRITERS 4 Units

Advisory: Eligibility for ENGL 1A.

Four hours lecture.

An examination of the works of 19th and 20th Century multicultural women poets, novelists, dramatists, and essayists and their contribution to English and American literature. Includes independent research and the creation of a major project on author, genre, work or theme.

ENGL 23 MODERN ENGLISH: FUNCTION & GRAMMAR 4 Units

Prerequisite: Eligibility for ENGL 1A.

Advisory: Not open to students with credit in LING 23.

Four hours lecture.

Introduction to basic linguistic concepts in describing the functions and grammar of present-day English. Focus on grammatical features of standard American English, Black English, and other English varieties as they function in the diverse types of communication between Americans, as well as in global interaction. Analysis of modern English relevant for those interested in refining their English, students of ESL and foreign languages, and prospective writers and language teachers.

ENGL 25	INTRODUCTION TO DESCRIPTIVE & HISTORICAL LINGUISTICS	4 Units	ENGL 40	ASIAN AMERICAN LITERATURE	4 Units
Prerequisite: Eligibility for ENGL 1A.			Advisory: Eligibility for ENGL 1A or ESL 26.		
Advisory: Not open to students with credit in LING 25.			Four hours lecture.		
Four hours lecture.			Introduction to Asian American literature. Readings in 20th Century works, with an emphasis on three relevant themes: problems of identity as it relates to class, gender, mixed heritages, and sexuality; politics and the history of Asian American activism and resistance; and diversity of cultures within the Asian American community.		
ENGL 26	LANGUAGE, MIND & SOCIETY	4 Units	ENGL 41	LITERATURE OF MULTICULTURAL AMERICA	4 Units
Prerequisite: Eligibility for ENGL 1A.			Prerequisite: Eligibility for ENGL 1A.		
Advisory: Not open to students with credit in LING 26.			Four hours lecture.		
Four hours lecture.			An exploration of American identity, focusing on ethnic, cultural, and national affiliations. Analysis of literary works by Native American, European American, African American, Chicano/Latino, and Asian American writers. Readings selected represent a variety of historical periods and literary genres. Emphasis on issues of assimilation, acculturation, and cultural pluralism as expressed through diverse voices.		
ENGL 30	SPECIAL TOPICS IN ENGLISH	4 Units	ENGL 42A	INTRODUCTION TO DRAMATIC LITERATURE	4 Units
Advisory: Eligibility for ENGL 1A.			Prerequisite: Eligibility for ENGL 1A.		
May be taken two times for credit.			Advisory: Not open to students with credit in DRAM 2A.		
Four hours lecture.			Four hours lecture.		
Intensive study of selected special topics in language and literature. Subjects vary from quarter to quarter. Consult current schedule for exact title.			Analysis of representative masterpieces of dramatic literature from Aeschylus through the Renaissance Period and including Asian Theatre.		
ENGL 31	CHICANO LITERATURE	4 Units	ENGL 42B	INTRODUCTION TO DRAMATIC LITERATURE	4 Units
Advisory: Eligibility for ENGL 1A.			Prerequisite: Eligibility for ENGL 1A.		
Four hours lecture.			Advisory: Not open to students with credit in DRAM 2B.		
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.			Four hours lecture.		
ENGL 32	IRISH LITERATURE	4 Units	ENGL 42C	INTRODUCTION TO DRAMATIC LITERATURE	4 Units
Advisory: Eligibility for ENGL 1A.			Prerequisite: Eligibility for ENGL 1A.		
Four hours lecture.			Advisory: Not open to students with credit in DRAM 2C.		
A careful study of selections from early Irish mythology and folklore up to, and including, contemporary short stories, novels and poetry by Irish writers.			Four hours lecture.		
ENGL 34	HONORS INSTITUTE SEMINAR IN ENGLISH	1 Unit	ENGL 46A	SURVEY OF ENGLISH LITERATURE	4 Units
Prerequisite: Membership in the Honors Institute.			Prerequisite: ENGL 1A or ESL 26.		
May be taken three times for credit.			Four hours lecture.		
One hour lecture.			Reading and critical analysis of representative works, emphasizing social and cultural backgrounds from Beowulf through Shakespeare, the Metaphysical Poets, and Milton. [CAN ENGL 8 = ENGL 46A+46B, CAN ENGL SEQ B = ENGL 46A+46B+46C]		
A seminar in directed readings, discussions, and projects in English. Specific topics to be determined by the instructor.			ENGL 46B	SURVEY OF ENGLISH LITERATURE	4 Units
ENGL 35	SEMINARS IN ENGLISH	1 Unit	Prerequisite: ENGL 1A or ESL 26.		
ENGL 35X		2 Units	Four hours lecture.		
ENGL 35Y		3 Units	Reading and critical analysis of representative works, emphasizing social and cultural backgrounds, from the Victorian Period to the Present. [CAN ENGL 8 = ENGL 46A+46B, CAN ENGL SEQ B = ENGL 46A+46B+46C, CAN ENGL 10 = ENGL 46B+46C]		
ENGL 35Z		4 Units	ENGL 46C	SURVEY OF ENGLISH LITERATURE	4 Units
Advisory: ENGL 1A.			Prerequisite: ENGL 1A or ESL 26.		
Any combination of ENGL 35, 35X, 35Y & 35Z may be taken a maximum of six times for credit.			Four hours lecture.		
One hour lecture.			Reading and critical analysis of representative works, emphasizing social and cultural backgrounds, from Romantic, Victorian and Modern writers. Offered Spring Quarters. [CAN ENGL 10 = ENGL 46B+46C, CAN ENGL SEQ B = ENGL 46A+46B+46C]		
A small group seminar of advanced literary research and critical techniques. Discussions and individual writing projects under instructor supervision. Specific topics will vary. Cannot be substituted for any department requirements.					
ENGL 36	INDIVIDUAL PROJECTS IN ENGLISH	1 Unit			
ENGL 36X		2 Units			
ENGL 36Y		3 Units			
ENGL 36Z		4 Units			
Advisory: Eligibility for ENGL 1A.					
Any combination of ENGL 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.					
One hour lecture.					
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 48A	SURVEY OF EARLY AMERICAN LITERATURE 1492-1864	4 Units	ENGL 80	INTRODUCTION TO TRAVEL WRITING	4 Units
Prerequisite: ENGL 1A.			Advisory: Eligibility for ENGL 1A.		
Four hours lecture.			Four hours lecture.		
Representative works of American literature from Columbus,s first voyage in 1492 through the Civil War, focusing on the development of entirely new literary forms, voices, and perspectives which make American literature unique. Selections from Native American myths, legends, and autobiographies; reports of early Spanish explorers; English colonial histories and Puritan poetry; African American slave narratives and poems; Revolutionary War political texts; frontier tall tales; transcendentalist philosophy; gothic short stories; and romantic fiction. Special emphasis on the contributions of diverse cultures in forging American literature and identity.			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 48B	AMERICAN LITERATURE IN THE GILDED AGE:1865-1914	4 Units	ENGL 97A-H	SHAKESPEARE FIELD TRIP	3 Units
Prerequisite: ENGL 1A.			Advisory: Eligibility for ENGL 1A.		
Four hours lecture.			Two hours lecture, two hours lecture-laboratory.		
Introduction to representative works of multicultural American Literature in the wake of the Civil War (1865-1914) including satirical works by Mark Twain; the experimental poetry of Walt Whitman and Emily Dickinson; autobiographical and political texts by African American leaders Booker T. Washington and W.E.B. Dubois; Mexican vaquero fiction; early Asian American texts; and Native American autobiographies. Emphasis on the radical innovations in literary forms, themes, language, and philosophy which shaped America,s new identity as an emerging world power within a period of fierce conflicts within American society over race, class, and gender roles.			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 48C	MODERN AMERICAN LITERATURE (1914-Present)	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 laboratory.		
Introduction to multicultural American Literature in the Modern Age (1914-present) with emphasis on the courageous contributions and literary innovations of diverse authors of Asian American, African American, Anglo American, Latino American, and Native American heritage, including Harlem Renaissance authors such as Hughes and Hurston; the radically experimental fiction of Hemingway, Fitzgerald, and Faulkner; the rise of modernist poets such as Eliot, Stevens, and Williams; Beat Generation authors such as Kerouac and Ginsberg; Native American authors such as Momaday and Erdrich; feminist poets such as Plath and Rich; and Asian American writers such as Bulosan and Hong Kingston. Special emphasis on the role of these diverse writers in continuously redefining the nature of American literature in the 20th Century, and thereby reshaping American national identity as the United States becomes a global superpower.			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 ENGL 205 and should repeat ENGL 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 51A	STUDENT SUCCESS IN THE ENGLISH CLASSROOM	2 Units	ENGL 104A	NARRATIVE READING & WRITING: PUENTE	5 Units
May be taken twice for credit.			Advisory: Not open to students with credit in ENGL 108 or 100.		
Two hours lecture.			Five hours lecture.		
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.			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 51B	STUDENT SUCCESS IN THE ENGLISH CLASSROOM	2 Units	ENGL 104B	ANALYTICAL READING & WRITING: PUENTE	5 Units
May be taken twice for credit.			Prerequisite: English 104T.		
Two hours lecture.			Advisory: Not open to students with credit in ENGL 108 or 110.		
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.			Five hours lecture.		
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.			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.		
ENGL 54	PROFESSIONAL WRITING SKILLS	4 Units	ENGL 108	READING & WRITING ON SPECIAL TOPICS	10 Units
Prerequisites: Eligibility for ENGL 1A.			Prerequisite: Must be eligible for both ENGL 100 and 110 based on assessment information.		
Four hours lecture.			Advisory: Not open to students who have completed ENGL 100 and/or ENGL 110.		
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.			Ten hours lecture.		

ENGL 110 INTRODUCTION TO COLLEGE WRITING 5 Units
Prerequisites: Eligibility based on assessment or successful completion of ENGL 100.

Advisory: Not open to students with credit in ENGL 108.

Five hours lecture, one hour laboratory.

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.

ENGL 114 PRODUCING A STUDENT NEWSPAPER 2 Units

Prerequisite: Eligibility for ENGL 1A.

May be taken six times for credit.

Two hours lecture, one hour laboratory.

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.

ENGL 190 DIRECTED STUDY	.5 Unit	
ENGL 190X	1 Unit	
ENGL 190Y	1.5 Units	
ENGL 190Z	2 Units	

Advisory: Pass/No Pass.

Any combination of ENGL 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.

One-half hour lecture, three and one-half hours laboratory for each unit of credit. For students who desire or require additional help in attaining comprehension and competency in learning skills; non-transferable course.

ENGL 200 BASIC READING & LEARNING SKILLS FOR YOUTH PROGRAM 2 Units

Prerequisite: Qualifying score on English placement Test; PSAT/SAT.

Two hours lecture.

Techniques and practice to improve reading effectiveness and to increase confidence in executing school assignments. Emphasis on habit-changing procedures. Does not meet Foothill College reading requirement.

ENGL 205 ALTERNATE CREDIT READING SKILLS 5 Units

Non-degree applicable credit course.

Corequisite: ENGL 100 or 108.

May be taken two times for credit.

Five hours lecture.

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 207 SPEED READING & RESEARCH STRATEGIES FOR YOUTH PROGRAM 2 Units

Prerequisite: Qualifying score on English Placement Test; PSAT/SAT.

Corequisite: LIBR 50.

Four hours lecture-laboratory.

Techniques and strategies for managing school assignments to enable students to learn more in less time with improved comprehension, reading speed and recall. Emphasis on efficient reading and study skills. Activities include information analysis, discussions, presentations and some writing. Does not meet the Foothill College reading requirement.

ENGL 210 BASIC WRITING SKILLS FOR YOUTH PROGRAM 5 Units

Non-degree applicable credit course.

Prerequisite: Qualifying score on the Foothill Assessment Test and recommendation of school principal.

Five hours lecture.

A developmental writing course presenting contemporary writing strategies: exploring and discovering ideas, anticipating reader's response, revising and editing, and vocabulary development. Emphasis on grammatical rules of composition and editing for development of clear and effective writing. Does not meet the Foothill College writing requirement.

ENGL 215 ALTERNATE CREDIT WRITING SKILLS 5 Units

Non-degree applicable credit course.

Corequisite: ENGL 110 or ENGL 108.

May be taken two times for credit.

Five hours lecture.

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 220 INTERMEDIATE READING SKILLS FOR YOUTH PROGRAM 5 Units

Non-degree applicable credit course.

Prerequisite: Qualifying score on the Foothill Assessment Test and recommendation of school principal.

Five hours lecture.

An introduction to techniques of college-level reading. Lecture, discussion, and individualized instruction to strengthen students' vocabulary, critical thinking and inferential reading skills. Readings selected from a wide range of academic disciplines, including social sciences, contemporary journalism and imaginative literature. Does not meet the Foothill College reading requirement.

ENGL 240 ADVANCED COMPOSITION & READING FOR YOUTH PROGRAM 5 Units

Prerequisite: Qualifying score on the Foothill Assessment Test and recommendation of school principal, or completion of ENGL 230.

Five hours lecture.

The fundamentals of mature expository and argumentative writing with critical reading of essays and short stories. Introduction to research techniques. Discussion, lecture, in-class writing, collaborative projects, individual conferences. Students are encouraged to enroll in ENGL 151. Does not meet the Foothill reading and/or writing requirement.

ENGLISH AS A SECOND LANGUAGE

Language Arts Division

(650) 949-7250

www.foothill.edu/la/

ESL 25 COMPOSITION & READING 5 Units

Prerequisite: Appropriate placement test score or a grade of "C" or better in ESL 166 and 167. Restricted to students whose native language is not English.

Advisory: Successful completion of or concurrent enrollment in ESL 165. Concurrent enrollment in ESL 176 and/or 177 strongly recommended.

Five hours lecture, one hour laboratory.

Development of critical reading skills using selected readings which present a range of cultural experiences and perspectives. Practice in writing expository essays based on personal experience, observations, and class readings with a review of acceptable English sentence structure. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Does not fulfill the composition requirements for the A.A. degree.

ESL 26 ADVANCED COMPOSITION & READING 5 Units	ESL 155 DEVELOPING LISTENING/ SPEAKING SKILLS 5 Units
Prerequisite: Appropriate placement test score or a grade of C or better in ESL 25. Restricted to students whose native language is not English.	Prerequisite: Appropriate placement score or successful completion of ESL 145.
Advisory: Successful completion of or concurrent enrollment in ESL 165. Concurrent enrollment in ESL 176 and/or 177 strongly recommended.	Advisory: Successful completion of ESL 146 and 147. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.	Five hours lecture.
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.	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 134 FUNDAMENTALS OF ENGLISH 10 Units	ESL 156 HIGH-INTERMEDIATE GRAMMAR 5 Units
Non-degree applicable credit course.	Non-degree applicable credit course.
Advisory: Concurrent enrollment in ESL 137. Designed for students whose native language is not English.	Prerequisite: Appropriate placement test score or successful completion of ESL 146.
Ten hours lecture, two hours laboratory.	Advisory: Successful completion of ESL 147. Concurrent enrollment in ESL 157 recommended. Designed for students whose native language is not English.
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.	Five hours lecture, one hour laboratory.
ESL 136 BASIC GRAMMAR FOR COMMUNICATION 5 Units	ESL 157 HIGH-INTERMEDIATE READING SKILLS 5 Units
Non-degree applicable credit course.	Prerequisite: Appropriate placement test score or successful completion of ESL 146 and ESL 147.
Advisory: Concurrent enrollment in ESL 137 recommended. Designed for students whose native language is not English.	Advisory: Concurrent enrollment in ESL 156 recommended. Designed for students whose native language is not English.
Five hours lecture, one hour laboratory.	Five hours lecture, one hour laboratory.
A basic English course for non-native speakers focusing on comprehension, communication and grammatical accuracy. Emphasis on practical understanding and everyday communication in spoken and written contexts. Computer or workbook activities to reinforce knowledge of structures.	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 137 BASIC READING & WRITING SKILLS 5 Units	ESL 158 DEVELOPING LANGUAGE SKILLS FOR INTERNATIONAL STUDENTS 10 Units
Advisory: Successful completion of or concurrent enrollment in ESL 134 or 136. Designed for students whose native language is not English.	Prerequisite: TOEFL score of 475 to 499. Restricted to international students whose native language is not English.
Five hours lecture, one hour laboratory.	Ten hours lecture.
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. Computer and/or workbook activities to reinforce knowledge of material and skills.	A high intermediate/low-advanced course in Grammar, Writing, Reading, and Speaking for international students who are about to enter a college academic program. Designed to improve students language skills.
ESL 145 ORAL COMMUNICATION SKILLS I 5 Units	ESL 165 LISTENING/SPEAKING FOR ACADEMIC PURPOSES 5 Units
Advisory: Appropriate placement test score or successful completion of ESL 136 and 137. Designed for students whose native language is not English.	Prerequisite: Appropriate placement test score or successful completion of ESL 155.
Five hours lecture.	Advisory: Successful completion of ESL 156 and 157. Designed for students whose native language is not English.
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.	Five hours lecture.
ESL 146 INTERMEDIATE GRAMMAR FOR COMMUNICATION 5 Units	ESL 166 ADVANCED GRAMMAR 5 Units
Prerequisite: Appropriate placement test score or a grade of C or better in ESL 134 or 136. In addition, a grade of C or better in ESL 137.	Non-degree applicable credit course.
Advisory: Successful completion of ESL 137. Concurrent enrollment in ESL 147 recommended. Designed for students whose native language is not English	Prerequisite: Appropriate placement test score or successful completion of ESL 15.
Five hours lecture, one hour laboratory.	Advisory: Successful completion of ESL 157. Concurrent enrollment in ESL 167 recommended. Designed for students whose native language is not English.
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.	Five hours lecture, one hour laboratory.
ESL 147 INTERMEDIATE READING SKILLS 5 Units	Five hours lecture, one hour laboratory.
Prerequisite: Appropriate placement test score or successful completion of ESL 136 and 137.	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.
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 167 BASIC COMPOSITION SKILLS 5 Units	ESL 236 ALTERNATIVE CREDIT: BASIC GRAMMAR FOR COMMUNICATION 5 Units
Prerequisite: Appropriate placement test score or a grade of C or better in ESL 156 and 157 and a grade of C or better or concurrent enrollment ESL 166. Designed for students whose native language is not English. Five hours lecture, one hour laboratory.	Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture, one hour laboratory.
A basic course for non-native speakers focusing on techniques of college writing, emphasizing clear prose. Lecture, discussion, and individualized instruction. Emphasis on the production of short compositions containing well-developed paragraphs and a variety of standard English sentences. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Does not meet the graduation requirement in composition.	Course is designed to allow students enrolled in ESL 136 to receive credit for mastery of some but not all of the outcomes of ESL 136. Students are required to attend the ESL 136 course, turn in all work, and participate in the other tasks of the class. Computer lab to reinforce structures.
ESL 176 APPLIED GRAMMAR & EDITING SKILLS 3 Units	ESL 237 ALTERNATIVE CREDIT: BASIC READING & WRITING SKILLS 5 Units
Prerequisites: Completion of ESL 166 or an appropriate score on the ESL placement test. Advisory: Pass/No Pass. Corequisite: Concurrent enrollment in ESL 25, 26, ENGL 110, 1A or 1B. May be taken two times for credit. Three hours lecture.	Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture, one hour laboratory.
Identify and edit for patterns of grammatical errors in original writing. Develop individual error profile. Address pertinent grammar issues through review of grammatical rules, various grammar exercises, and editing of sample papers and original work.	Course is designed to allow students enrolled in ESL 137 to receive credit for mastery of some but not all of the outcomes of ESL 137. Students are required to attend the ESL 137 course, turn in all work, and participate in the other tasks of the class. Library and lab work for extensive reading and vocabulary development.
ESL 177 ADVANCED VOCABULARY DEVELOPMENT 3 Units FOR READING & WRITING	ESL 245 ALTERNATE CREDIT: ORAL COMMUNICATION SKILLS I 5 Units
Prerequisite: Appropriate placement test score or successful completion of ESL 166 and 167. Advisory: Designed for students whose native language is not English. May be taken two times for credit. Three hours lecture.	Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture.
Expansion of academic vocabulary to meet the specific vocabulary needs for students in an academic setting. Multiple exposures to target words in meaningful contexts and rich information about each word. May be repeated one time as course content changes.	Course is designed to allow students enrolled in ESL 145 to receive credit for mastery of some but not all of the outcomes of ESL 145. Students are required to attend the ESL 145 course, turn in all work, and participate in the other tasks of the class.
ESL 225 ALTERNATE CREDIT: COMPOSITION & READING 5 Units	ESL 246 ALTERNATE CREDIT: INTERMEDIATE GRAMMAR FOR COMMUNICATION 5 Units
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture, one hour laboratory.	Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture, one hour laboratory.
Course is designed to allow students enrolled in ESL 25 to receive credit for mastery of some but not all of the outcomes of ESL 25. Students are required to attend the ESL 25 course, turn in all work, and participate in the other tasks of the class. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Does not meet the Foothill College composition requirements for the A.A. degree.	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
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture, one hour laboratory.	Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture, one hour laboratory.
Course is designed to allow students enrolled in ESL 26 to receive credit for mastery of some but not all of the outcomes of ESL 26. Students are required to attend the ESL 26 course, turn in all work, and participate in the other tasks of the class. Open laboratory for feedback on essays and individualized assistance with specific writing problems.	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
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Ten hours lecture, two hours laboratory.	Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture.
Course is designed to allow students enrolled in ESL 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 256 ALTERNATE CREDIT: HIGH- INTERMEDIATE GRAMMAR 5 Units
	Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken two times for credit. Five hours lecture.
	Course is designed to allow students enrolled in ESL 156 to receive credit for mastery of some but not all of the outcomes of ESL 156. Students are required to attend the ESL 156 course, turn in all work, and participate in the other tasks of the class.

ESL 257	ALTERNATE CREDIT: HIGH-INTERMEDIATE READING SKILLS	5 Units
Non-degree applicable credit course.		
Advisory: Pass/No Pass.		
May be taken two times for credit.		
Five hours lecture, one hour laboratory.		
Course is designed to allow students enrolled in ESL 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
Non-degree applicable credit course.		
Advisory: Pass/No Pass.		
May be taken two times for credit.		
Five hours lecture.		
Course is designed to allow students enrolled in ESL 165 to receive credit for mastery of some but not all of the outcomes of ESL 165. Students are required to attend the ESL 165 course, turn in all work, and participate in the other tasks of the class.		
ESL 266	ALTERNATIVE CREDIT: ADVANCED GRAMMAR	5 Units
Non-degree applicable credit course.		
Advisory: Pass/No Pass.		
May be taken two times for credit.		
Five hours lecture.		
Course is designed to allow students enrolled in ESL 166 to receive credit for mastery of some but not all of the outcomes of ESL 166. Students are required to attend the ESL 166 course, turn in all work, and participate in the other tasks of the class.		
ESL 267	ALTERNATIVE CREDIT: BASIC COMPOSITION SKILLS	5 Units
Non-degree applicable credit course.		
Advisory: Pass/No Pass.		
May be taken two times for credit.		
Five hours lecture, one hour laboratory.		
Course is designed to allow students enrolled in ESL 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
Advisory: Pass/No Pass.		
May be taken two times for credit.		
Three hours lecture.		
Course is designed to allow students enrolled in ESL 176 to receive credit for mastery of some but not all of the outcomes of ESL 176. Students are required to attend the ESL 176 course, turn in all work, and participate in the other tasks of the class.		
ESL 277	ALTERNATE CREDIT: ADVANCED VOCABULARY DEVELOPMENT FOR READING/WRITING	3 Units
Non-degree applicable credit course.		
Advisory: Pass/No Pass.		
May be taken two times for credit.		
Three hours lecture.		
Expansion of academic vocabulary to meet the specific vocabulary needs for students in an academic setting. Multiple exposures to target words in meaningful contexts and rich information about each word. May be repeated one time as course content changes.		

ENVIRONMENTAL HORTICULTURE & DESIGN

Biological & Health Sciences Division (650) 949-7249
www.foothill.edu/bio/programs/hort/

HORT 10	ENVIRONMENTAL HORTICULTURE & THE URBAN LANDSCAPE	3 Units
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Four hours lecture, three hours laboratory.

Environmental horticulture encompasses the planning, design, construction, and management of the urban landscape. Relevant topics include ecosystem restoration and management, landscape ecology, sustainable landscape management, sustainable use of natural resources, urban horticulture, and urban landscape design.

HORT 50A	ORIENTATION TO ENVIRONMENTAL HORTICULTURE	4 Units
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Three and one-half hours lecture, one and one-half hours laboratory.

Survey of the many facets and component sciences of environmental horticulture. Exploration of the multitude of career options available in the green industry. 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.

HORT 51A	PLANT MATERIALS I	3 Units
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Advisory: HORT 50A strongly recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.

Identification, taxonomy, habits of growth, cultural and environmental requirements of woody plants grown in California. Emphasis on the use and maintenance of evergreen trees and shrubs in the landscape. Plants are observed in lab, on campus, and at off-site locations.

HORT 51B	PLANT MATERIALS II	3 Units
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Advisory: HORT 50A strongly recommended (may be taken concurrently).
Two hours lecture, three hours laboratory.

Identification, taxonomy, habits of growth, cultural and environmental requirements of woody plants grown in California. Emphasis on the use and maintenance of deciduous trees and shrubs in the landscape. Plants are observed in lab, on campus, and at off-site locations.

HORT 51C	PLANT MATERIALS: ANNUALS	2 Units
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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 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.

HORT 51D	PLANT MATERIALS: CALIFORNIA NATIVE PLANTS	2 Units
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Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.

Identification, taxonomy, habits of growth, cultural and environmental requirements of plants native to California landscapes. Emphasis on a wide variety of native species including trees, shrubs, ground covers, and herbaceous plants. Plants are observed in lab, on campus, and at off-site locations.

HORT 51E	PLANT MATERIALS: GROUND COVERS & VINES	2 Units
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Advisory: HORT 50A strongly recommended (may be taken concurrently).
One hour lecture, three hours laboratory.

Identification, taxonomy, habits of growth, cultural and environmental requirements of woody and herbaceous ground covers and vines grown in California. Emphasis on the use and maintenance of evergreen and deciduous plants used as ground covers, vines, or espaliers in ornamental landscapes. Plants are observed in lab, on campus, and at off-site locations.

HORT 51F	PLANT MATERIALS: GRASSES, BAMBOOS & PALMS	2 Units	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 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.			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 51G	PLANT MATERIALS: INTERIOR & TROPICAL PLANTS	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 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.			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 51H	PLANT MATERIALS: PERENNIALS	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 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.			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 51J	PLANT MATERIALS: CACTI & SUCCULENTS	2 Units	HORT 52H	HORTICULTURE PRACTICES: INTEGRATED PEST 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 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.			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 52A	HORTICULTURAL PRACTICES: SOILS	3 Units	HORT 54A	LANDSCAPE CONSTRUCTION: GENERAL PRACTICES	4 Units
	Advisory: HORT 50A recommended (may be taken concurrently). Two hours lecture, three hours laboratory.			Three 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.			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 52B	HORTICULTURAL PRACTICES: PLANT PROPAGATION	3 Units	HORT 54B	LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES	3 Units
	Advisory: HORT 50A strongly recommended (may be taken concurrently). Two hours lecture, three hours laboratory.			Two and one-half hours lecture, one and one-half 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.			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 52C	HORTICULTURE PRACTICES: PLANT INSTALLATION & MAINTENANCE	3 Units	HORT 54C	LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES	3 Units
	Two hours lecture, three hours laboratory.			Two and one-half hours lecture, one and one-half hours laboratory.	
	Horticultural principles and practices for management of plants and gardens. Proper selection and maintenance of trees, shrubs, and ground covers. Preparation of planting areas and installation and post-planting care of landscape plants. Techniques for pruning of various species. Operation of equipment and tools used in gardening.			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 52D	HORTICULTURAL PRACTICES: BIOTECHNOLOGY & MICRO-PROPAGATION	3 Units	HORT 54D	LANDSCAPE CONSTRUCTION: APPLIED PRACTICES	2 Units
	Advisory: HORT 50A or BIOL 10 strongly recommended. Two hours lecture, three hours laboratory.			May be taken three times for credit.	
	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).			Advisory: HORT 54A strongly recommended. One hour lecture, three hours laboratory.	
				The practical application of landscape construction practices to actual projects. Emphasis on field work which may include the design and construction of screens, fences, gates, benches, planter boxes, overheads, gazebos, decks, ponds or other specialized projects. Training on motorized equipment, such as tractors and backhoes used in landscape construction.	

HORT 55A	GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES	3 Units	HORT 80	ENVIRONMENTAL HORTICULTURE SKILLS	2 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.					
HORT 55B					
GREEN INDUSTRY MANAGEMENT: EMPLOYEE PRACTICES	3 Units		HORT 90A	CONTAINER PLANTINGS IN THE LANDSCAPE	1 Unit
Three hours lecture.					
Employee management practices including the recruitment, motivation, and development of new employees. Also covered are effective customer service techniques, workplace diversity, the use of employee manuals, identifying and training new and potential managers, development of leadership skills, scheduling, and the role of the supervisor.					
HORT 60A	LANDSCAPE DESIGN: GRAPHIC COMMUNICATION	3 Units	HORT 90B	ENVIRONMENTAL HORTICULTURE CAREERS	1 Unit
Three hours lecture, three hours laboratory.					
An introductory survey of the basic principles of design communication, landscape graphics, and design process. Graphic mediums and tools, graphic vocabulary, graphic skills, reprographic techniques, plan reading, and presentation skill development. The application of lines, symbols, and lettering to create typical landscape drawings.					
HORT 60B	LANDSCAPE DESIGN: THEORY	3 Units	HORT 90C	GARDEN PONDS & WATER FEATURES	1 Unit
Advisory: HORT 60A and/or drafting skills strongly recommended.					
Two hours lecture, three hours laboratory.					
Principles of landscape design theory. Intermediate studies in and applications of graphic communication, creative problem solving, design theory, and presentation skills. Residential site analysis and landscape design case studies.					
HORT 60C	LANDSCAPE DESIGN: IRRIGATION	3 Units	HORT 90D	HERBS: IDENTIFICATION, USE & FOLKLORE	1 Unit
Advisory: HORT 54C strongly recommended.					
Two and one-half hours lecture, one and one-half hours laboratory.					
Principles of irrigation design for ornamental landscapes. Includes history of irrigation, advanced site analysis, irrigation design theory, equipment selection and layout, controller scheduling, long-term maintenance, and water conservation issues. Process of producing irrigation plans, details, and specifications.					
HORT 60D	LANDSCAPE DESIGN: PLANTING	3 Units	HORT 90E	HORTICULTURAL & LANDSCAPE PHOTOGRAPHY	1 Unit
Advisory: HORT 60A & 60B, or equivalent, strongly recommended.					
Two hours lecture, three hours laboratory.					
The use of ornamental and native plant materials to express basic design principles in the landscape. Planting design theory as it applies to the aesthetic, cultural, ecological, and functional use of plant materials in the landscape. Graphics used for presenting planting designs. Special focus on the use of plants in garden designs.					
HORT 60E	LANDSCAPE DESIGN: COMPUTER APPLICATIONS	3 Units	HORT 90F	LANDSCAPE DESIGN: BASIC PRINCIPLES	1 Unit
Advisory: HORT 60A and a basic understanding of the operation of computers is strongly recommended.					
Two hours lecture, three hours laboratory.					
Introduction to the use of computer applications in landscape design. Overview of software for computer aided design and drafting (CADD), landscape visualization, plant selection, irrigation design, estimating, and green industry management. Focus on development of basic command skills utilized in landscape design software applications.					
HORT 60F	LANDSCAPE DESIGN: PROCESS	3 Units	HORT 90G	LANDSCAPE DESIGN FORUM	1 Unit
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 90H	LANDSCAPE LIGHTING	1 Unit			
May be taken five times for credit.					
Three-quarters hour lecture, one-half hour laboratory.					
Basic theory, design, and installation techniques for lighting residential landscapes. The effective use of conventional and low-voltage lighting for improving landscape aesthetics and the functional use of outdoor spaces.					

HORT 901 LANDSCAPE SUSTAINABILITY PRACTICES 1 Unit	HORT 90S TECHNOLOGY UPDATE ON INSECT PEST MANAGEMENT FOR PEST CONTROL ADVISORS (PCA) 1 Unit
May be taken five times for credit.	May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.	Three-quarters hour lecture, one-half hour laboratory.
Principles and practices utilized in the design, implementation, and maintenance of sustainable landscapes and gardens. Reviews ecological principles of sustainability for efficient energy use in the environment.	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	HORT 90T GARDENS OF THE RENAISSANCE 1 Unit
May be taken five times for credit.	May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.	Three-quarters hour lecture, one-half hour laboratory.
Introduction to landscape tools and equipment, and their safe usage. Selection, operation, and maintenance of hand and power tools. Troubleshooting of gas and electrically powered landscape tools and equipment.	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	HORT 90U LANDSCAPE DESIGN: PERSPECTIVE SKETCHING 1 Unit
May be taken five times for credit.	May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.	Three-quarters hour lecture, one-half hour laboratory.
The use of edible plants in residential landscapes. Practice and feasibility of integrating edible plants into landscape designs. Identification of ornamental plant materials which produce edible fruit, foliage, flowers or other edible parts.	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	HORT 90W WATER FEATURES IN EUROPEAN GARDENS 1 Unit
May be taken five times for credit.	May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.	Three-quarters hour lecture, one-half hour laboratory.
Introduction to propagation of plants by sexual and asexual methods. Seeding, cutting, grafting, division of specialized structures, and micro-propagation discussed and demonstrated. Discussions include growing media, fertilizers, hormones, and other plant supplements.	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	HORT 90X XERISCAPING: CREATING WATER-CONSERVING LANDSCAPES 1 Unit
May be taken five times for credit.	May be taken five times for credit.
Three-quarters hour lecture, one-half hour laboratory.	Three-quarters hour lecture, one-half hour laboratory.
Introduction to plant nutrient requirements and methods for providing proper plant nutrition. Topics include review of basic nutrient requirements, forms of nutrients used by plants, nutrient deficiency identification, methods for delivering nutrients to plants, manufacture of fertilizers, fertilizer formulations, fertilizer delivery methods, and organic nutrient sources.	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	FASHION MERCHANDISING
May be taken five times for credit.	Business & Social Sciences Division
Three-quarters hour lecture, one-half hour laboratory.	(650) 949-7322
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.	www.foothill.edu/bss/
HORT 90P PRUNING: BASIC SKILLS 1 Unit	FASH 50 INTRODUCTION TO FASHION MERCHANDISING 4 Units
May be taken five times for credit.	Four hours lecture.
Three-quarters hour lecture, one-half hour laboratory.	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.
HORT 90Q RESIDENTIAL IRRIGATION SYSTEMS 1 Unit	FINE ARTS
May be taken five times for credit.	Fine Arts & Communication Division
Three-quarters hour lecture, one-half hour laboratory.	(650) 949-7262
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.	www.foothill.edu/fa/
HORT 90R SEASONAL FLORAL DESIGN 1 Unit	F A 1 INTRODUCTION TO POPULAR CULTURE 4 Units
May be taken five times for credit.	Four hours lecture.
Three-quarters hour lecture, one-half hour laboratory.	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

Any combination of F A 30, 30X, 30Y & 30Z may be taken a maximum of six times for credit.

One hour lecture.

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 92	COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR FINE ARTS	1 Unit
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Advisory: Pass/No Pass.

May be taken six times for credit.

One hour lecture, three hours laboratory.

For students who desire training and technical support in experiential learning as a community volunteer in specific fine arts disciplines.

F A 150	FINE ARTS LABORATORY	.5 Unit
F A 150X		1 Unit
F A 150Y		1.5 Units
F A 150Z		2 Units

Any combination of F A 150, 150X, 150Y & 150Z may be taken for a maximum of 12 units.

One and one-half hours laboratory.

Supervised activities in musical skills and materials related to other music 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.

Any combination of F A 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.

One-half hour lecture, three and one-half hours laboratory for each unit of credit.

Supervised activities in fine arts, for students who desire or require additional help in attaining comprehension and competency in learning skills in a fine arts subject. Supervised by the division dean or designee.

F A 191	WRITING/COMMUNICATION ACROSS THE CURRICULUM FOR FINE ARTS	.5 Unit
F A 191X		1 Unit
F A 191Y		1.5 Units
F A 191Z		2 Units

Advisory: Pass/No Pass.

Any combination of F A 191, 191X, 191Y & 191Z may be taken a maximum of six times for credit.

One-half hour lecture, three and one-half hours laboratory for each unit of credit.

For students who desire additional help in attaining improved writing and speaking abilities in specific fine arts disciplines.

F A 192	COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR FINE ARTS	1 Unit
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Non-degree applicable credit course.

Advisory: Pass/No Pass.

May be taken six times for credit.

One hour lecture, three hours laboratory.

For students who desire training and technical support in experiential learning as a community volunteer in specific fine arts disciplines.

FRENCH

Language Arts Division

(650) 949-7250

www.foothill.edu/la/

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, CAN FREN 2 = FREN 1+2, CAN FREN SEQ A = FREN 1+2+3]

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 2 = FREN 1+2, CAN FREN 3, CAN FREN SEQ A = FREN 1+2+3]

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, CAN FREN SEQ A = FREN 1+2+3]

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, CAN FREN SEQ B = FREN 4+5+6]

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, CAN FREN SEQ B = FREN 4+5+6]

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, CAN FREN SEQ B = FREN 4+5+6]

FREN 13A	INTERMEDIATE CONVERSATION I	3 Units
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Prerequisite: FREN 3.

Advisory: May be taken concurrently with FREN 4.

Three hours lecture, one hour laboratory.

Review and development of oral and listening communication skills in the targeted functions studied in first-year French with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary French as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural and historical issues based on authentic texts, current news broadcasts, and/or films.

FREN 13B INTERMEDIATE CONVERSATION II	3 Units	FREN 39 CONTEMPORARY FRANCOPHONE LITERATURE IN TRANSLATION	4 Units
Prerequisite: FREN 13A		Advisory: Eligibility for ENGL 1A or equivalent.	
Advisory: May be taken concurrently with FREN 4.		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.	
FREN 14A ADVANCED CONVERSATION I	3 Units	FREN 190 DIRECTED STUDY	.5 Unit
Prerequisite: FREN 3 or high school equivalent.		FREN 190X	1 Unit
Advisory: May be taken concurrently with FREN 5.		FREN 190Y	1.5 Units
Three hours lecture, one hour laboratory.		FREN 190Z	2 Units
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.		Advisory: Pass/No Pass.	
FREN 14B ADVANCED CONVERSATION II	3 Units	Any combination of FREN 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.	
Prerequisite: FREN 14A.		One-half hour lecture of individualized instruction for each one-half unit of credit.	
Advisory: May be taken concurrently with FREN 6.		For students who desire or require additional help in attaining comprehension and competency in learning skills.	
Three hours lecture, one hour laboratory.			
Continuation of FREN 14A. Conversation course designed to allow students to interact in an environment of increasingly challenging language situations using complex communication skills. Emphasis on idioms, vocabulary and logical reasoning to express agreement, disagreement, doubt and skepticism on abstract topics. Comprehension of speech that is heavily reliant on cultural knowledge.			
FREN 25A ADVANCED COMPOSITION & READING	4 Units	GEOGRAPHY	
Prerequisite: FREN 6.		Business & Social Sciences Division	(650) 949-7322
Four hours lecture.			www.foothill.edu/bss/
Reading and analysis of original French literary texts. Term paper, compositions, advanced grammar. Instruction in French.			
FREN 25B ADVANCED COMPOSITION & READING	4 Units	GEOG 1 PHYSICAL GEOGRAPHY	5 Units
Prerequisite: FREN 25A.		Advisory: Eligibility for ENGL 1A or ESL 26; MATH 101.	
Four hours lecture.		Five hours lecture, one hour laboratory.	
Reading and analysis of original French literary texts. Term paper, compositions.		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.	
FREN 34 HONORS INSTITUTE SEMINAR IN FRENCH	1 Unit	GEOG 2 HUMAN GEOGRAPHY	4 Units
Prerequisite: Membership in the Honors Institute.		Four hours lecture, one hour laboratory.	
One hour lecture.		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]	
A seminar in directed readings, discussions, and projects in French. Specific topics to be determined by the instructor.		GEOG 5 INTRODUCTION TO ECONOMIC GEOGRAPHY	4 Units
FREN 36 SPECIAL PROJECTS IN FRENCH	1 Unit	Four hours lecture.	
FREN 36X	2 Units	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.	
FREN 36Y	3 Units		
FREN 36Z	4 Units		
Prerequisite: FREN 5.		GEOG 9 CALIFORNIA GEOGRAPHY	4 Units
Advisory: Enrollment for this course is available in the Language Arts Division Office.		Four hours lecture.	
Any combination of FREN 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.		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.	
One hour lecture for each unit of credit.		GEOG 10 WORLD REGIONAL GEOGRAPHY	4 Units
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.		Four hours lecture.	
		Survey of the world's major culture regions and major nations. Physical, cultural, economic features. Emphasis on historical influences on population growth, transportation networks, natural environment, potential and problems. Location, importance and impact of the foremost features of countries, states, major cities, rivers and landform regions.	
GEOG 12 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)		GEOG 12 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)	4 Units
		Three hours lecture, three hours laboratory.	
		Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, Georeferencing and Global Positioning Systems (GPS). Discussion and analysis of uncertainty propagation with a GIS. Modeling with GIS.	

GEOG 34	HONORS INSTITUTE SEMINAR IN GEOGRAPHY	1 Unit	GEOG 90B	INTRODUCTION TO GIS FOR K-12 TEACHERS II: UTILIZING SPATIAL DATA & DATA ANALYSIS IN THE CLASSROOM	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. 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.		
A seminar in directed readings, discussions and projects in geography. Specific topics to be determined by the instructor.					
GEOG 35	DEPARTMENT HONORS PROJECTS IN GEOGRAPHY	1 Unit	GEOG 90C	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR K-12 TEACHERS III: DESIGNING & IMPLEMENTING A GIS	1 Unit
May be taken six times for credit.			One hour lecture.		
One hour lecture.			Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Designing and creating an original GIS. Database design, fundamentals of data storage, scanning and heads-up digitizing. Finding and accessing free data sources on the Internet.		
Seminar in geographical readings, research, critical techniques and practice. Specific topics vary.					
GEOG 36	SPECIAL PROJECTS IN GEOGRAPHY	1 Unit	GEOG 100A	INTRODUCTION TO ARC VIEW GIS	.5 Unit
GEOG 36X		2 Units	One-half hour lecture.		
GEOG 36Y		3 Units	Introduction to ESRI's ArcView GIS software. Fundamental GIS concepts. Hands-on experience with basic elements of project file set-up, managing projects and conducting basic queries.		
GEOG 36Z		4 Units			
Any combination of GEOG 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.			GEOG 100B	INTRODUCTION TO GEO MEDIA & GEO MEDIA PRO	.5 Unit
One hour lecture.			One-half hour lecture.		
Advanced readings, research, and/or project in geography. Specific topics determined in consultation with instructor.			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.		
GEOG 52	ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS)	4 Units			
Three hours lecture, three hours laboratory.			GEOLOGY		
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.			Physical Sciences, Mathematics & Engineering Division (650) 949-7259		
GEOG 54A	SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS	2 Units	www.foothill.edu/psme/		
May be taken two times for credit.					
Two hours lecture.			GEOL 3	GEOLOGY OF THE NATIONAL PARK	4 Units
Seminar on the diverse applications of Geographic Information Systems (GIS). Weekly presentations by guest speakers.			Three hours lecture, one hour lecture-discussion, one hour field trip.		
			Geologic concepts and processes responsible for shaping our national parks, including mountain building, volcanic and earthquake activity, sedimentation, weathering, erosion and glaciation. An understanding of how geology impacts our lives will be emphasized. Appropriate for both science and non-science majors who wish to enhance their knowledge, enjoyment and appreciation of our national parks. One Saturday field trip is required.		
GEOG 54B	SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS	2 Units			
Corequisite: GEOG 54A.			GEOL 10	INTRODUCTORY GEOSCIENCE	5 Units
Six hours laboratory.			Four hours lecture, one hour lecture-laboratory, two hours laboratory, one hour field trip.		
Students undertake an original GIS project of their choosing under guidance of the instructor.			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]		
GEOG 58	REMOTE SENSING & DIGITAL IMAGE PROCESSING	2 Units			
One hour lecture, three hours laboratory.			GEOL 11	EVOLUTION OF THE EARTH	5 Units
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.			Prerequisite: GEOL 10.		
			Four hours lecture, one hour lecture-laboratory, two hours laboratory, two hours field trip.		
			Evolution of the earth and the life it supports, as determined by the geologic and fossil records. Concepts governing change of the crust, oceans, and biosphere of the earth, evaluation of global climatic change. Two Saturday field trips are required. [CAN GEOL 4]		
GEOG 59	CARTOGRAPHY, MAP PRESENTATION & DESIGN	2 Units			
One hour lecture, three hours laboratory.					
Map projections, geodes, coordinate systems. Map composition. Selection of colors and symbols.					
GEOG 90A	INTRODUCTION TO GIS FOR K-12 TEACHERS I: FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS SCIENCE	1 Unit			
One hour lecture.					
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection and coordinate systems. Applications and uses of GIS and data visualization in the classroom and in and out of the classroom. Integration of technology intensive curriculum with the traditional classroom model.					

GEOL 22	PLANETARY GEOLOGY	3 Units	GEOL 95D	EXCURSIONS IN GEOLOGY: OWENS VALLEY & EASTERN SIERRAS	1 Unit
Advisory: GEOL 10.			Formerly: GEOL 45D		
Two hours lecture, two hours lecture-laboratory, one hour field trip.			Prerequisite: GEOL 3 or 10, or equivalent experience.		
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.			Advisory: Not open to students with credit in GEOL 45D.		
GEOL 25	TECTONICS	3 Units	Three hours field trip.		
Advisory: GEOL 10.			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.		
Two hours lecture, two hours laboratory, two hours field trip.					
Plate Tectonics as a tool in understanding the dynamic processes that shape the earth. Structure of continental and oceanic crust; evolution of continents and mountain ranges. The rock record of modern and ancient tectonic regimes. One weekend field trip required. All field trip costs are to be borne by the student.					
GEOL 34	HONORS INSTITUTE SEMINAR IN GEOLOGY	1 Unit	GEOL 95E	EXCURSIONS IN GEOLOGY: NORTH COAST, POINT REYES NATIONAL SEASHORE & SAN ANDREAS FAULT ZONE	1 Unit
Prerequisite: Membership in the Honors Institute.			Formerly: GEOL 45E		
One hour lecture.			Prerequisite: GEOL 3 or 10, or equivalent experience.		
A seminar in directed readings, discussions and projects in geology. Specific topics to be determined by the instructor.			Advisory: Not open to students with credit in GEOL 45E.		
Three hours field trip.			Three hours field trip.		
			Field trip to the Point Reyes National Seashore. Emphasis on determining the geologic history and evolution of the national seashore and its critical position in understanding the evolution of the San Andreas fault zone. All field trip costs are to be borne by the student.		
GEOL 36	SPECIAL PROJECTS IN GEOLOGY	1 Unit	GEOL 99A	GEOLOGIC EXPEDITIONS: DEATH VALLEY & COLORADO PLATEAU	3 Units
GEOL 36X		2 Units	Formerly: GEOL 49A		
GEOL 36Y		3 Units	Prerequisite: GEOL 3 or 10, or equivalent experience.		
Prerequisite: GEOL 11.			Advisory: Not open to students with credit in GEOL 49A.		
Any combination of GEOL 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.			One hour lecture-laboratory, one hour laboratory, seven hours field trip.		
Three hours laboratory for each unit of credit.			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.		
One meeting to be arranged each week to discuss special topics and problems, both traditional and current, in geology. Readings and laboratory work directed by the instructor.					
GEOL 95A	EXCURSIONS IN GEOLOGY: LASSEN VOLCANIC NATIONAL PARK	1 Unit	GERMAN		
Formerly: GEOL 45A			Language Arts Division		
Advisory: Not open to students who have taken GEOL 45A.				(650) 949-7250	
Three hours field trip.				www.fothill.edu/la/	
Field trip to Lassen Volcanic National Park Northeastern California. Emphasis on determining the geologic history and evolution of the national park and its surrounding environs. All field trip costs are to be borne by the student.					
GEOL 95B	EXCURSIONS IN GEOLOGY: YOSEMITE NATIONAL PARK	1 Unit	GERM 1	ELEMENTARY GERMAN	5 Units
Formerly: GEOL 45B			Five hours lecture, two hours laboratory.		
Prerequisite: GEOL 3 or 10, or equivalent experience.			Intensive oral practice of basic, every-day language functions. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 1, CAN GERM SEQ A = GERM 1+2+3]		
Advisory: Not open to students with credit in GEOL 45B.					
Three hours field trip.					
Field trip to Yosemite National Park in the Sierra Nevada. Emphasis on determining the geologic history and evolution of the national park and its surrounding environs. All field trip costs are to be borne by the student.			GERM 2	ELEMENTARY GERMAN	5 Units
			Five hours lecture, two hours laboratory.		
Formerly: GEOL 45C			Further development of material presented in GERM 1. Intensive oral practice broadening the functions presented in GERM 1 and adding new ones. Greater emphasis on student generated discussion. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 3, CAN GERM SEQ A = GERM 1+2+3]		
Prerequisite: GEOL 3 or 10, or equivalent experience.					
Advisory: Not open to students with credit in GEOL 45C.			GERM 3	ELEMENTARY GERMAN	5 Units
Three hours field trip.			Five hours lecture, two hours laboratory.		
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.			Further development of material presented in GERM 1 and 2. Intensive oral practice of basic, every-day language functions. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 5, CAN GERM SEQ A = GERM 1+2+3]		
GEOL 95C	EXCURSIONS IN GEOLOGY: HOLLISTER & PINNACLES NATIONAL MONUMENT	1 Unit	GERM 4	INTERMEDIATE GERMAN	5 Units
Formerly: GEOL 45C			Five hours lecture, one hour laboratory.		
Prerequisite: GEOL 3 or 10, or equivalent experience.			Introduction to reading German literature. Recycling of grammatical structures presented in first-year German. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in German. [CAN GERM 7, CAN GERM SEQ B = GERM 4+5+6]		
Advisory: Not open to students with credit in GEOL 45C.					
Three hours field trip.					
Field trip to the Hollister area and Pinnacles National Monument. Emphasis on discerning the movement history of the Calaveras fault and San Andreas transform margin, determination of the importance of the volcanic sequence in the national monument. All field trip costs are to be borne by the student.					

GERM 5	INTERMEDIATE GERMAN	5 Units	GERM 34	HONORS INSTITUTE SEMINAR IN GERMAN	1 Unit
Prerequisite: GERM 4 or four years of high school German.			Prerequisite: Membership in the Honors Institute.		
Five hours lecture, one hour laboratory.			One hour lecture.		
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. [CAN GERM SEQ B = GERM 4+5+6]			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 6	INTERMEDIATE GERMAN	5 Units	GERM 36	SPECIAL PROJECTS IN GERMAN	1 Unit
Prerequisite: GERM 5.			GERM 36X		2 Units
Five hours lecture, one hour laboratory.			GERM 36Y		3 Units
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, CAN GERM SEQ B = GERM 4+5+6]			GERM 36Z		4 Units
GERM 8	POST WORLD WAR II GERMANY	4 Units	Prerequisite: GERM 6.		
Advisory: Eligibility for ENGL 1A. Not open to students with credit in POLI 8.			Any combination of GERM 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.		
Four hours lecture.			One hour lecture for each unit of credit.		
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.			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 13A	INTERMEDIATE CONVERSATION I	3 Units	GERM 39	GERMAN LITERATURE IN TRANSLATION	4 Units
Prerequisite: GERM 3.			Advisory: Eligibility for ENGL 1A.		
Three hours lecture, one hour laboratory.			Four hours lecture.		
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.			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.		
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	GID 1	HISTORY OF GRAPHIC DESIGN	4 Units
Prerequisite: GERM 13B.			Formerly: <i>GRDS 36</i>		
Three hours lecture, one hour laboratory.			Advisory: Not open to students with credit in ART 36.		
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.			Four hours lecture, one hour laboratory.		
GERM 14B	ADVANCED CONVERSATION II	3 Units	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.		
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	GID 20	DIGITAL VIDEO PRODUCTION I	4 Units
Prerequisite: GERM 6.			Formerly: <i>GRDS 20</i>		
Four hours lecture.			Advisory: Not open to students with credit in VART 20.		
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.			Two and one-half hours lecture, three hours lecture-laboratory, one hour laboratory.		
GERM 25B	ADVANCED COMPOSITION & READING	4 Units	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.		
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.					
GID 38	PRINTMAKING I	4 Units	GID 38	PRINTMAKING I	4 Units
Prerequisite: GID 38.			Formerly: <i>GRDS 69</i>		
Four hours lecture.			Advisory: ART 4A and 5A recommended.		
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.			Two hours lecture, two hours lecture-laboratory, two hours laboratory.		
GID 39	PRINTMAKING II	4 Units	Introduction to the printmaking processes of relief, intaglio, screenprinting and paper plate lithography. Theory and practice making limited-edition and one-of-a-kind fine art prints.		
Prerequisite: GID 38.					
Four hours lecture.					
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 54	TYPOGRAPHY	4 Units
<i>Formerly: GRDS 71</i>			<i>Formerly: GRDS 62</i>		
Advisory: ART 56 or GID 74 recommended.			Advisory: GID 50, and 74 or proficiency using InDesign/Quark software.		
May be taken three times for credit.			Two hours lecture, two hours lecture-laboratory, three hours laboratory.		
Two hours lecture, two hours lecture-laboratory, two hours laboratory.			Exploration and experimentation with letter forms and page layout for expressive communication. Fundamental typographic principles, font recognition, and analysis of both historical and post modern design theory. Emphasis on content, form, and technique for effective use of typography in ads, posters, newsletters and other visual communications.		
GID 42	BEGINNING ETCHING	3 Units	GID 56	WEB SITE DESIGN	4 Units
<i>Formerly: GRDS 37A</i>			<i>Formerly: GRDS 94</i>		
Advisory: Not open to students with credit in ART 37A.			Advisory: GID 50 and proficiency using Dreamweaver, Illustrator and Photoshop software.		
Six hours lecture-laboratory.			Two hours lecture, two hours lecture-laboratory, three hours laboratory.		
Beginning techniques in printmaking, including embossing, monoprinting, chine colle, drypoint, softground, line etching, handcoloring, printing and the editioning of plates.			Basic instruction using the computer for web site and interface design. Emphasis on interactive media and creative problem solving.		
GID 44	BEGINNING RELIEF PRINTMAKING	3 Units	GID 60	CAREERS IN THE VISUAL ARTS	2 Units
Advisory: ART 4A and 5A recommended.			<i>Formerly: GRDS 50</i>		
May be taken six times for credit.			Advisory: Not open to students with credit in VART 50.		
Six hours lecture-laboratory.			Two hours lecture.		
An introduction to relief printing processes, exploring the basic techniques of embossing, linoleum block, wood block and collagraph printing.			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 46	BEGINNING SCREENPRINTING	3 Units	GID 61	PORTFOLIO	4 Units
<i>Formerly: GRDS 39A</i>			<i>Formerly: GRDS 77</i>		
Advisory: ART 4A or 5A. Not open to students with credit in ART 39A.			Six hours lecture-laboratory, three hours laboratory.		
Six hours lecture-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.		
An introduction to screen printing processes, exploring the basic techniques for making cut stencil designs and drawn stencil images.			GID 62	SERVICE LEARNING PROJECTS	4 Units
GID 48	MONOPRINTING	3 Units	<i>Formerly: GRDS 83</i>		
Advisory: Not open to students with credit in ART 49.			Advisory: Completion of entry level design and software courses.		
Six hours lecture-laboratory.			May be taken three times for credit.		
Studio experiences in printmaking methods that create one-of-a-kind fine art prints. Emphasis on artistic growth of imagery while developing technical skills with tools, media and techniques.			Six hours lecture-laboratory, three hours laboratory.		
GID 50	GRAPHIC DESIGN STUDIO I	4 Units			
<i>Formerly: GRDS 53</i>					
Two hours lecture, two hours lecture-laboratory, three hours laboratory.					
Introduction to graphic design and visual communication. Projects include composition, typography, image creation and logo design. Creative ideas are explored in sketches and rough layouts. Students learn fundamental software skills using Adobe Illustrator and Photoshop to complete the graphic design activities in this course.					
GID 51	GRAPHIC DESIGN STUDIO II	4 Units	GID 70	GRAPHIC DESIGN DRAWING	4 Units
Prerequisite: GID 50.			<i>Formerly: GRDS 60</i>		
Two hours lecture, two hours lecture-laboratory, three hours laboratory.			Two lecture, two hours lecture-laboratory, two hours laboratory.		
Continuation of GID 50. Students engage in problem solving with real-world graphic design projects. Focus on creative solutions that effectively use type, image, and layout. Projects include brochure, advertisement, interface, and package design. Creative ideas are explored in sketches, rough layouts, and finished comps. Students learn software skills using Adobe InDesign, Illustrator, and Photoshop to complete the graphic design activities in this course.			Developing drawing skills for communicating ideas. Learning to simplify complex realistic images to express design concepts rapidly and effectively.		
GID 52	GRAPHIC DESIGN STUDIO III	4 Units	GID 71	STORYBOARDING	4 Units
Prerequisite: GID 51.			<i>Formerly: GRDS 76</i>		
Two hours lecture, two hours lecture-laboratory, three hours laboratory.			Advisory: GID 70.		
Continuation of GID 51. Students design and produce a real-world graphic design campaign. Focus on creative solutions that effectively use type, image, and layout. Projects include branding, identity, newsletter, web site, and package design. Creative ideas are explored in sketches, rough layouts, comps, and final presentations. Students learn software skills using Adobe Acrobat, InDesign, Illustrator, Photoshop, and Macromedia Dreamweaver to complete the graphic design activities in this course.			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>		
			May be taken for a maximum of 12 units for credit.		
			Two hours lecture, two hours lecture-laboratory, three hours laboratory.		
			Fundamentals of drawing cartoons for mass communication with a variety of styles and techniques. Emphasis on skills, concepts, humor, and design. Exploration of career opportunities.		

GID 74	INTRODUCTION TO DIGITAL ART & GRAPHICS	4 Units	GID 94	BOOK ARTS PROFESSIONAL PRACTICES	3 Units
<i>Formerly: GRDS 56</i>					
Advisory: Familiarity with computer operating systems, ART 4A or GID 70; ART 5A; PHOT 1. Not open to students with credit in ART 56 or PHOT 75. Six hours lecture-laboratory, three hours laboratory.					
Basic instruction using the computer for painting, drawing, image processing, photo composites and typography. Emphasis on image making and creative problem solving.					
GID 76	ILLUSTRATION & DIGITAL IMAGING	4 Units	GID 95	GRAPHIC ARTS STUDIO PROJECTS	4 Units
<i>Formerly: GRDS 90</i>					
Advisory: ART 4A or GID 70 recommended. GID 74 or familiarity with painting and drawing software. Two hours lecture, two hours lecture-laboratory, two hours laboratory.					
Creation of images to communicate ideas. Traditional and digital media. Emphasis on concept development and communication effectiveness. Development of personal visual vocabulary while learning art making techniques and media, reproduction processes and illustration business practice.					
GID 80	DIGITAL SOUND, VIDEO & ANIMATION	4 Units	GID 150	BOOK ARTS ACTIVITIES	.5 Unit
<i>Formerly: GRDS 86</i>			GID 150X		1 Unit
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.			GID 150Y		2 Units
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 150Z		4 Units
GID 84	MOTION GRAPHICS	4 Units	<i>Formerly: GRDS 150</i>		
<i>Formerly: GRDS 87</i>			Any combination of GID 150, 150X, 150Y & 150Z may be taken for a maximum of 24 units.		
Advisory: GID 80, or ART 88, or MUS 86, or DRAM 86, or VART 86. Not open to students with credit in VART 87. Two hours lecture, two hours lecture-laboratory, three hours laboratory.			One hour lecture-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.			Activities in the book arts. Specific topics to be determined by the instructor.		
GID 90	BOOK ARTS I	4 Units	GID 151	PRINTMAKING STUDIO	.5 Unit
<i>Formerly: GRDS 96</i>			GID 151X		1 Unit
May be taken three times for credit. Two hours lecture, two hours lecture-laboratory, two hours laboratory.			GID 151Y		2 Units
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 151Z		4 Units
HLTH 5			Any combination of GID 151, 151X, 151Y & 151Z may be taken for a maximum of 18 units.		
Advisory: GID 90. Two hours lecture, two hours lecture-laboratory, three hours laboratory.			One hour lecture-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.			Supervised studio practice in printmaking projects. Application of skills learned in previously taken graphic arts courses.		
GID 91	BOOK ARTS II	4 Units	HEALTH		
Prerequisite: GID 90.			Language Arts Division		
Advisory: May be taken six times for credit. Two hours lecture, two hours lecture-laboratory, three hours laboratory.			(650) 949-7249 www.foothill.edu/la/		
HLTH 21			HLTH 5		
Prerequisite: GID 90. Two hours lecture, two hours lecture-laboratory, three hours laboratory.			EMERGENCY RESPONSE		
Advisory: May be taken six times for credit. Two hours lecture, two hours lecture-laboratory, three hours laboratory.			5 Units		
May be taken three times for credit. 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.			Four hours lecture, three hours laboratory.		
HLTH 120			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 120			HLTH 21		
Prerequisite: Completion of seventh grade and recommendation of school principle.			HEALTH EDUCATION		
Advisory: GID 50 and 74. Three hours lecture.			3 Units		
May be taken three times for credit. Two hours lecture, two hours lecture-laboratory, two hours laboratory.			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 120			HLTH 120		
Prerequisite: Completion of seventh grade and recommendation of school principle.			HEALTH EDUCATION & LIVING SKILLS FOR YOUTH		
Advisory: GID 50 and 74. Three hours lecture.			3 Units		
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.					

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. [CAN HIST 2 = HIST 4A+4B, CAN HIST SEQ A = HIST 4A+4B+4C]

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. [CAN HIST 2 = HIST 4A+4B, CAN HIST SEQ A = HIST 4A+4B+4C]

HIST 4C HISTORY OF WESTERN CIVILIZATION 4 Units

Advisory: Eligibility for ENGL 1A or ESL 26.

Four hours lecture.

Survey of the development of Western society and culture during the nineteenth and twentieth centuries. Emphasis upon the social, intellectual, and institutional changes that have led to the contemporary Western world and its interchange with the peoples and institutions of the world's continents.

HIST 8 HISTORY OF LATIN AMERICA 4 Units

Advisory: Eligibility for ENGL 1A or ESL 26.

Four hours lecture.

History of Latin America from Pre-Columbian times to the present. Emphasis upon Native and European contributions to present Latin American culture. Special emphasis on governmental systems and social and economic progress. Includes revolutionary movements and their present status.

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

Four hours lecture.

Pre-Columbian civilizations, the Spanish conquest, and development of Mexico since independence; evolution of political, economic and social institutions.

HIST 16 INTRODUCTION TO ANCIENT ROME 4 Units

Advisory: HIST 4A or equivalent.

Four hours lecture.

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.

HIST 17A HISTORY OF THE UNITED STATES TO 1877 5 Units

Five hours lecture.

American civilization through 1877. Survey of United States history. Political, economic and social development. [CAN HIST 8, CAN HIST SEQ B = HIST 17A+17B]

HIST 17B HISTORY OF THE UNITED STATES FROM 1877 5 Units

Advisory: Eligibility for ENGL 1A or ESL 26.

Five hours lecture.

American civilization from 1877 through the present. Survey of United States history and its political, economic and social development.

HIST 18 INTRODUCTION TO MIDDLE EASTERN CIVILIZATION 4 Units

Advisory: Eligibility for ENGL 1A or ESL 26.

Four hours lecture.

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.

HIST 19 HISTORY OF ASIA: CHINA/JAPAN 4 Units

Advisory: Eligibility for ENGL 1A or ESL 26.

Four hours lecture.

Political, social and economic development of China and Japan. Emphasis on impact of Western culture and problems of political and economic modernization.

HIST 20 HISTORY OF RUSSIA & THE SOVIET UNION 4 Units

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.

HIST 23A INTRODUCTION TO AFRICAN HISTORY TO 1800 4 Units

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.

HIST 24 20th CENTURY AMERICAN FOREIGN POLICY 4 Units

Advisory: Not open to students with credit in POLI 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.

HIST 30 WAR & PEACE IN THE 20th & 21st CENTURY 4 Units

Advisories: Eligibility for ENGL 1A or ESL 26.

Four hours lecture.

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.

HIST 34 HONORS INSTITUTE SEMINAR IN HISTORY 1 Unit

Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in history. Specific topics to be determined by the instructor.

HIST 35 DEPARTMENT HONORS PROJECTS IN HISTORY 1 Unit

HIST 35X DEPARTMENT HONORS PROJECTS IN HISTORY 2 Units

HIST 35Y DEPARTMENT HONORS PROJECTS IN HISTORY 3 Units

HIST 35Z DEPARTMENT HONORS PROJECTS IN HISTORY 4 Units

Any combination of HIST 35, 35X, 35Y & 35Z may be taken a maximum of six times for credit.

One hour lecture.

Seminar in historical readings, research, critical techniques and practice. Specific topics vary.

HIST 36	SPECIAL PROJECTS IN HISTORY	1 Unit	H P 9A	EXERCISE PRINCIPLES OF LIFETIME FITNESS	1 Unit
HIST 36X		2 Units		May be taken six times for credit.	
HIST 36Y		3 Units		Four hours laboratory.	
HIST 36Z		4 Units		Introduction and applications of components related to health and performance fitness. Includes individual fitness assessment and exercise program planning.	
Any combination of HIST 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.					
One hour lecture.					
Advanced readings, research and/or project in history. Specific topics determined in consultation with instructor.					

HUMAN PERFORMANCE

Physical Education/Athletic Division	(650) 949-7222 www.foothill.edu/ath/				
H P 1	INTRODUCTION TO PHYSICAL EDUCATION AS A PROFESSION	4 Units	H P 10	BEGINNING & INTERMEDIATE SWIMMING	1 Unit
Four hours lecture.					
Introduction to the general nature of the physical education profession and its related fields of health, recreation and athletics.					
H P 2X	LIFETIME FITNESS	1 Unit	H P 10B	AQUATIC FITNESS	1 Unit
H P 2Y		2 Units		May be taken six times for credit.	
H P 2Z		3 Units		Four hours laboratory.	
Any combination of HP 2X, 2Y & 2Z may be taken six times for credit.					
Three hours laboratory.					
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	H P 10C	AQUACIZE	1 Unit
May be taken six times for credit.					
Three hours laboratory.					
This lecture laboratory course addresses the needs of today's population asking for practical functional exercises to promote fitness and health. Theory and exercise addressing musculo-skeletal anatomy, core stabilization, balance, flexibility, strength, posture, cardio-vascular endurance, muscle endurance, nutrition and body composition.					
H P 3C	BOOT CAMP TRAINING	3 Units	H P 11	BEGINNING SPRINGBOARD DIVING	1 Unit
May be taken six times for credit.					
Three hours laboratory.					
This course is designed for students who want an annual program in which group training uses functional fitness activities to develop core strength, cardiovascular conditioning and muscle strength and power.					
H P 4	ATHLETIC OFFICIATING	3 Units	H P 12	LIFEGUARD TRAINING	4 Units
Two hours lecture, three hours laboratory.					
Rules and mechanics of officiating interscholastic, intercollegiate and professional athletics.					
H P 5	WATER SAFETY INSTRUCTOR	4 Units	H P 13	MASTER'S SWIMMING/ADVANCED SWIM TRAINING	2 Units
Three hours lecture, three hours laboratory.					
An American Red Cross course to prepare students to teach swimming and safety in and around the water. Emphasis on development of skills, safety practices, and guidance in teaching, organizing and supervising a water safety program for all levels of swimming and water exercise programs from the age of six months. The American Red Cross Water Safety Instructor certificate is awarded upon successful completion of the course.					
H P 8A	INTERMEDIATE/ADVANCED WATER POLO	1 Unit	H P 14B	STEP AEROBICS	1 Unit
May be taken six times for credit.					
Four hours laboratory.					
Intermediate/advanced water polo for competitive play. Includes covering drills, strategies, techniques and rules.					
H P 9	LIFETIME WELLNESS ACTIVITIES	1 Unit	H P 14C	AEROBICS CIRCUIT TRAINING	1 Unit
May be taken six times for credit.					
Three hours laboratory.					
Introduction and participation in a program using selectorized weight training machines designed to develop and improve strength and aerobic conditioning for lifetime health related fitness					
H P 14D	STEP & SCULPT	1 Unit	H P 14D	STEP & SCULPT	1 Unit
May be taken six times for credit.					
Three hours laboratory.					
Free weights combined with step aerobics used to enhance muscle strength, endurance training and cardiovascular conditioning.					
H P 14F	CORE FLOW: CARDIO DANCE	1 Unit	H P 14F	CORE FLOW: CARDIO DANCE	1 Unit
May be taken six times for credit.					
Three hours laboratory.					
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 16	WALK FOR HEALTH	1 Unit	H P 22	HIKING FOR FITNESS	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Three hours laboratory.		
Introduction to fitness walking. Includes basic principles of exercise and how they relate to fitness walking.			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.		
H P 16A	GENERAL CONDITIONING	1 Unit	H P 23	ARCHERY	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Three hours laboratory.		
Types of running; proper methods, proper techniques; how to start a running awareness only. Predominately a running program for the development of individual fitness.			Introduction to the sport of archery. Emphasis will be placed on instinctive shooting, scoring, terminology, safety and etiquette.		
H P 16B	SKI CONDITIONING	1 Unit	H P 23A	INDOOR ARCHERY	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Four hours laboratory.			Three hours laboratory.		
Course designed to develop physical conditioning level for safe and pleasurable skiing. Exercise will be geared toward developing flexibility, strength and aerobic endurance.			Introduction to the sport of archery. Emphasis will be placed on instinctive shooting, scoring, terminology, safety and etiquette.		
H P 16D	SURVIVOR TRAINING	1 Unit	H P 24	BADMINTON	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Three hours laboratory.		
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 history, terminology, skills, strategy, and techniques fundamental to badminton.		
H P 17	HEALTH & FITNESS ACTIVITIES	1 Unit	H P 24A	TOURNAMENT BADMINTON	1 Unit
H P 17W		2 Units	May be taken six times for credit.		
H P 17X		3 Units	Three hours laboratory.		
Any combination of HP 17, 17W and 17X may be taken six times for credit.			Training for locally and nationally sanctioned tournaments at an intermediate and advanced level of play.		
Nine hours laboratory.					
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 25	BEGINNING GOLF	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Four hours laboratory.			Four hours laboratory.		
A structured training class in the use of weights for strength and fitness.			Includes basic rules of the game, terminology, techniques and fundamentals of the swing, knowledge of equipment and course etiquette.		
H P 19A	BEGINNING WEIGHT TRAINING	1 Unit	H P 25A	INTERMEDIATE GOLF	1 Unit
Three hours laboratory.			May be taken six times for credit.		
A structured training class in the use of weights for strength and fitness.			Three hours laboratory.		
			A continuation in the development of golf skills beyond the beginning level. Includes swing fundamentals, information concerning selection and care of equipment, rules, course etiquette, course management, and the mental game.		
H P 19F	CORE FLOW: STRENGTH	1 Unit	H P 25B	ADVANCED GOLF	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Three hours laboratory.		
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.			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 21	STRETCHING & FLEXIBILITY	1 Unit	H P 25C	TOURNAMENT GOLF	1 Unit
May be taken six times for credit.			H P 25CX		2 Units
Three hours laboratory.			Any combination of H P 25C & 25CX may be taken a maximum of six times for credit.		
A stretching program for the development of joint flexibility and muscle suppleness.			Three hours laboratory.		
			Golf conducted in a tournament format. Includes several types of match play at various municipal courses.		
H P 21C	FUNDAMENTALS OF FLEXIBILITY	1 Unit	H P 25D	GOLF: ONE-ON-ONE	1 Unit
May be taken six times for credit.			H P 25DX		2 Units
Three hour laboratory.			H P 25DY		2 Units
A stretching program for the development of joint flexibility and muscle suppleness.			Any combination of H P 25D, 25DX & 25DY may be taken a maximum of six times for credit.		
			Three hours laboratory.		
H P 21F	CORE FLOW: FLEXIBILITY	1 Unit	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.		
May be taken six times for credit.					
Three hours laboratory.					
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.					

H P 25E	TOTAL GOLF	1 Unit	H P 27D	INTERMEDIATE BASKETBALL	1 Unit
H P 25EX		2 Units		May be taken six times for credit.	
Any combination of H P 25E & 25EX may be taken a maximum of six times for credit.				Three hours laboratory.	
Three hours laboratory.				Tournament play plus an individual emphasis on intermediate skill development and the techniques of team play. Course is designed to get students ready for the advanced tournament class.	
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 28	SLOW PITCH SOFTBALL	1 Unit
May be taken six times for credit.				May be taken six times for credit.	
Three hours laboratory.				Three hours laboratory.	
Intermediate/advanced individual and group instruction on golf swing skills plus tournament play on local par three courses.				Coeducational games with instruction in throwing, fielding and hitting.	
H P 25G	ONLINE GOLF SCHOOL	3 Units	H P 29	SOCER	1 Unit
May be taken six times for credit.				May be taken six times for credit.	
Three hours lecture.				Three hours laboratory.	
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.				Soccer class developing basic skills such as passing, shooting, dribbling and heading. Includes game strategy, tactics, and laws of the game.	
H P 25TG	GOLF COURSE EXPERIENCE	2 Units	H P 29A	INDOOR SOCCER	1 Unit
May be taken six times for credit.				May be taken six times for credit.	
Six hours laboratory.				Three hours laboratory.	
Students will play an 18-hole golf course and utilize the knowledge and skills developed in beginning, intermediate and advanced golf.				Introduction in the fundamental skills and strategies for indoor soccer. Includes rules and an opportunity for active participation in game situations.	
H P 26	BEGINNING TENNIS	1 Unit	H P 30	BEGINNING VOLLEYBALL	1 Unit
May be taken six times for credit.				May be taken six times for credit.	
Three hours laboratory.				Three hours laboratory.	
Introduction to beginning tennis play including basic strokes, drills, rules and etiquette.				Introduction to the game of volleyball. Includes basic skills, strategy, and team play.	
H P 26A	INTERMEDIATE/ADVANCED TENNIS	1 Unit	H P 30A	INTERMEDIATE/ADVANCED VOLLEYBALL	1 Unit
May be taken six times for credit.				May be taken six times for credit.	
Three hours laboratory.				Three hours laboratory.	
Intermediate/advanced tennis for competitive play includes covering drills, strategies, techniques and rules.				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 26B	DOUBLES TENNIS	1 Unit	H P 31	SELF-DEFENSE	1 Unit
May be taken six times for credit.				May be taken six times for credit.	
Three hours laboratory.				Three hours laboratory.	
Introduction to doubles tennis play. Includes basic court positions, skill drills, and offensive and defensive strategies.				A program designed to develop the skill, knowledge, stamina and attitude to defend oneself properly in a variety of situations.	
H P 26C	TOURNAMENT TENNIS	2 Units	H P 31A	SELF-DEFENSE FOR WOMEN	1 Unit
May be taken six times for credit.				May be taken six times for credit.	
Six hours laboratory.				Three hours laboratory.	
Development of skill proficiency by participating in tournament play.				Introduction to women's self-defense. Includes skills, psychology, strategy, tactics and conditions for self-protection and rape defense.	
H P 27	BASKETBALL	1 Unit	H P 31C	CARDIO KICKBOXING	1 Unit
May be taken six times for credit.				May be taken three times for credit.	
Three hours laboratory.				Three hours laboratory.	
An introduction to the fundamental skills and strategies of the team sport of basketball. Skill work drills and full-court tournament play.				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.	
H P 27A	ADVANCED TOURNAMENT BASKETBALL	1 Unit	H P 32	BEGINNING MODERN DANCE	1 Unit
May be taken six times for credit.				May be taken six times for credit.	
Three hours laboratory.				Three hours laboratory.	
Includes tournament play with an emphasis on team offensive and defensive basketball systems.				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.	
H P 32A	INTERMEDIATE/ADVANCED MODERN DANCE	1 Unit			
May be taken six times for credit.				May be taken six times for credit.	
Three hours laboratory.				Three hours laboratory.	
Designed to advance the student's ability to integrate expressive body movements in a creative dance form beyond the introductory level. Fundamental modern dance locomotor and axial movement techniques are presented and practiced in class.					

H P 32B	BEGINNING BALLET	1 Unit	H P 33D	INTERMEDIATE/ADVANCED SOCIAL DANCE	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Three hours laboratory.		
Introduction to basic ballet technique and progressions. Includes the fundamentals of barre and center floor exercises.			Continuation of social dance techniques. Instruction and practice in Swing, Cha Cha, Waltz, Fox Trot, Rhumba and Tango dances.		
H P 32C	INTERMEDIATE/ADVANCED BALLET	1 Unit	H P 34	CHOREOGRAPHY	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Three hours laboratory.		
The study of theoretical aspects of dance movement including concepts, skills and teaching principles.			Exploration of the basic principles and theories of choreography and composition and the tools for defining the creative process.		
H P 32D	PILATES	1 Unit	H P 35B	INTERCOLLEGIATE SOCCER (WOMEN)	3 Units
May be taken six times for credit.			May be taken four times for credit.		
Three hours laboratory.			Fifteen hours laboratory.		
Stretching and strengthening exercises to strengthen and tone muscles, improve posture, flexibility and balance for a more streamlined shape.			Competitive intercollegiate soccer working toward personal development, athletic scholarship, and career opportunities.		
H P 32E	INTERMEDIATE PILATES	1 Unit	H P 35C	INTERCOLLEGIATE VOLLEYBALL (WOMEN)	3 Units
May be taken six times for credit.			May be taken four times for credit.		
Three hours laboratory.			Fifteen hours laboratory.		
Intermediate level stretching and strengthening exercises to strengthen and tone muscles, improve posture, flexibility and balance for a more streamlined shape. Intermediate Pilates class is based on The Method Pilates 'Advanced Fundamentals' and 'Standing Exercises & functional fitness'. Exercises are mostly standing and require knowledge, experience and proficiency with the Basic Mat exercises.			Competitive intercollegiate volleyball working toward personal development, athletic scholarship, and career opportunities.		
H P 32F	BAR BAND BALL-ATES	1 Unit	H P 35D	INTERCOLLEGIATE BASKETBALL (WOMEN)	3 Units
May be taken six times for credit.			May be taken four times for credit.		
Three hours laboratory.			Fifteen hours lecture-laboratory.		
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 basketball for women athletes with advanced high school experience.		
H P 32P	CORE FLOW: BALANCE	1 Unit	H P 35E	INTERCOLLEGIATE TENNIS (WOMEN)	3 Units
May be taken six times for credit.			May be taken four times for credit.		
Three hours laboratory.			Fifteen hour lecture-laboratory.		
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.			Competitive intercollegiate tennis working toward personal development, athletic scholarship, and career opportunities.		
H P 33	BEGINNING JAZZ DANCE	1 Unit	H P 35F	INTERCOLLEGIATE SOFTBALL (WOMEN)	3 Units
May be taken six times for credit.			May be taken four times for credit		
Three hours laboratory.			Fifteen hours lecture-laboratory.		
Introduction to the fundamental technique of jazz dance. Emphasis is placed on class participation so that students may develop their knowledge and understanding of the basic principles of jazz dancing, including warm-up, stretch, isolations and choreography.			Competitive intercollegiate softball for experienced athletes.		
H P 33A	INTERMEDIATE JAZZ DANCE	1 Unit	H P 35G	INTERCOLLEGIATE GOLF (WOMEN)	3 Units
May be taken six times for credit.			May be taken four times for credit.		
Three hours laboratory.			Fifteen hours lecture-laboratory.		
Designed to give students an opportunity to practice and perfect intermediate jazz techniques. Emphasis on techniques presented as well as information on historical and stylistic perspectives of this dance form.			A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in competition.		
H P 33B	SOCIAL DANCE	1 Unit	H P 35H	INTERCOLLEGIATE SWIMMING (WOMEN)	3 Units
May be taken six times for credit.			May be taken four times for credit.		
Three hours laboratory.			Fifteen hour lecture-laboratory.		
Introduction to social dance techniques. Instruction and practice in Swing, Cha Cha, Waltz, Fox Trot, Rhumba and Tango dances.			Competitive intercollegiate swimming working toward personal development, athletic scholarship, and career opportunities.		
H P 33C	ADVANCED JAZZ DANCE	1 Unit	H P 35K	PRE-SEASON CONDITIONING FOR WOMEN	2 Units
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Six hours lecture-laboratory.		
Technique and performance of advanced jazz dance for the advanced student. Includes preparation of dance routines for a live stage performance.			A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in intercollegiate athletics.		
H P 36	WRESTLING	1 Unit			
May be taken six times for credit.					
Four hours laboratory.					
Development and practice of the basic wrestling skills. Includes conditioning programs and strategical tactics.					

H P 37	THEORIES & TECHNIQUES OF COACHING SPORTS	4 Units	H P 40D	INTERCOLLEGIATE BASKETBALL (MEN)	3 Units
				May be taken four times for credit.	
	Four hours lecture.			15 hours 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.			Competitive intercollegiate basketball working toward personal development, athletic scholarship and career opportunities.	
H P 38	AEROBIC INSTRUCTOR TRAINING CERTIFICATION	2 Units	H P 40E	INTERCOLLEGIATE TENNIS (MEN)	3 Units
				May be taken four times for credit.	
	Four hours lecture-laboratory.			15 hours lecture-laboratory.	
	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.			Competitive tennis for student athletes who had had extensive high school or club tennis.	
H P 39	BEGINNING ROCK CLIMBING	1 Unit	H P 40G	INTERCOLLEGIATE GOLF (MEN)	3 Units
	May be taken six times for credit.			May be taken four times for credit.	
	Four hours laboratory.			15 hours lecture-laboratory.	
	Introduction to the fundamental skills and safety system of rock climbing learned on an indoor wall. Practice of climbing movement for the development of concentration, timing, balance, flexibility, and strength. Emphasis on developing skills for top-rope climbing on artificial walls.			Competitive intercollegiate golf working toward skill development, athletic scholarship and career opportunities.	
H P 39A	INTERMEDIATE ROCK CLIMBING	1 Unit	H P 40H	INTERCOLLEGIATE SWIMMING (MEN & WOMEN)	3 Units
	May be taken six times for credit.			May be taken four times for credit.	
	Three hours laboratory.			15 hours lecture-laboratory.	
	Development of the intermediate skills of indoor and outdoor rock climbing. Emphasis on developing climbing and descending techniques for outdoor real rock. Course includes two one-day sessions of climbing in the Santa Cruz Mountains and a weekend climbing in or near Yosemite.			Competitive intercollegiate swimming program for student athletes.	
H P 39C	ANCHORING FOR ROCK CLIMBING	1 Unit	H P 40J	INTERCOLLEGIATE TRACK & FIELD (MEN & WOMEN)	3 Units
	May be taken three times for credit.			May be taken four times for credit.	
	Three hours laboratory.			15 hours lecture-laboratory.	
	Securing rope systems to rock walls with natural and artificial anchors, including runners, nuts, cams, pitons and bolts.			Competitive intercollegiate track and field working toward personal development, athletic scholarship and career opportunities.	
H P 39D	INTERMEDIATE MOUNTAINEERING	1 Unit	H P 40K	INTERCOLLEGIATE WATER POLO	3 Units
	May be taken six times for credit.			May be taken three times for credit.	
	Three hours laboratory.			15 hours lecture-laboratory.	
	Building skills for living above timberline and climbing the rock, snow and ice of the high Sierra. Emphasis on developing mountaineering skills during an extended high mountain trip.			Competitive intercollegiate water polo working toward personal development, athletic scholarship and career opportunities.	
H P 39E	INTRODUCTION TO MOUNTAIN GUIDING	3 Units	H P 40L	INTERCOLLEGIATE PRE-SEASON CONDITIONING	2 Units
	May be taken three times for credit.			May be taken six times for credit.	
	One hour lecture, six hours laboratory.			Six hours lecture-laboratory.	
	Development of client-centered rapport, leadership and teaching skills appropriate to rock climbing and mountaineering.			A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in intercollegiate athletics.	
H P 40	INTRODUCTION TO MOUNTAINEERING	2 Units	H P 40P	INTERCOLLEGIATE DANCE PERFORMANCE	3 Units
	May be taken three times for credit.			May be taken six times for credit.	
	One hour lecture, three hours laboratory.			15 hours lecture-laboratory.	
	Introduction to the mountain environment and the tools and techniques of mountaineering. Emphasis on developing mountaineering skills that culminate in the ascent of a peak.			Supervised participation in scheduled productions of the dance department, in cast or crew. A laboratory course for the resident and touring company of the college, including instruction on the how to of a full-scale theatrical production for public performance.	
H P 40B	INTERCOLLEGIATE SOCCER (MEN)	3 Units	H P 44	BEGINNING YOGA	1 Unit
	May be taken four times for credit.			May be taken six times for credit.	
	15 hours lecture-laboratory.			Three hours laboratory.	
	Competitive intercollegiate soccer working toward personal development, athletic scholarship and career opportunities.			Introduction to the discipline of yoga. Emphasis on the practice and demonstration of the beginning postures and the usage of yoga for stress management and exercise.	
H P 40C	INTERCOLLEGIATE FOOTBALL (MEN)	3 Units	H P 44A	INTERMEDIATE YOGA	1 Unit
	May be taken six times for credit.			May be taken six times for credit.	
	15 hours lecture-laboratory.			Three hours laboratory.	
	Competitive football for those student athletes who have had high school experience.			Intermediate yoga training, skills and techniques; independent, group, and personalized training; individual yoga and group interaction yoga.	
			H P 44B	THERAPEUTIC YOGA	1 Unit
				May be taken six times for credit.	
				Three hours laboratory.	
				Designed for those with specific ailments and limitations, or struggling with the aging process. Slow and gentle introductory yoga training, skills, and techniques with the goal of restoration and revitalization. Independent, group and personalized training will be offered.	

H P 44H	FUNDAMENTALS OF HATHA YOGA	4 Units	
Four hours lecture.			
Fundamentals of Hatha Yoga is an in depth survey and scientific analysis of the techniques and principles of various styles of Hatha Yoga. Ideal for instructors preparing for certification, and students wishing to deepen their personal practice.			
H P 44P	POWER YOGA	1 Unit	
May be taken six times for credit.			
Three hours laboratory.			
Power Yoga is a combination of the traditional forms of yoga woven into one powerful all-inclusive practice. Postures are combined into a vigorous, flowing series, linking one movement to the next, building strength, flexibility, and endurance.			
H P 44V	VINYASA FLOW YOGA	1 Unit	
May be repeated six times for credit.			
Three hours laboratory.			
Vinyasa yoga is a form of traditional hatha yoga that focuses on integrating breath and movement, awareness and alignment, strength, and flexibility. Vinyasa uses six discrete series of sequences of advancing difficulty with repeated closing sections between each sequence. Each variation is linked to the next one by a succession of specific transitional movements. Likened to a dynamic dance, postures or asanas are connected through the breath for a transformative and balancing effect. The Vinyasa practice ranges from slow flowing to fast aerobic, developing strength and endurance.			
H P 46	MOUNTAIN BIKING	1 Unit	
May be taken six times for credit.			
Four hours laboratory.			
This course is designed to improve mountain biking techniques, training methods and bike maintenance skills. Includes emphasis on cross country, dual slalom, and downhill events.			
H P 46B	INDOOR CYCLING-SPIN	1 Unit	
May be taken six times for credit.			
Three hours laboratory.			
An indoor cycling program to enhance cardiovascular fitness and improve cycling techniques. Emphasis will be on improving endurance through non-impact activity.			
H P 47	BEGINNING COUNTRY- WESTERN LINE DANCING	1 Unit	
May be taken six times for credit.			
Four hours laboratory.			
Introduction to the fundamental skills for Country and Western Line Dancing. Students will participate in a variety of dance steps designed to develop the coordination, skill, choreography and timing necessary for social line dancing.			
H P 47C	INTERMEDIATE LINE DANCING	1 Unit	
May be taken six times for credit.			
Three hours laboratory.			
H P 47D	WORLD DANCE	1 Unit	
May be taken six times for credit.			
Three hours laboratory.			
H P 48	CONCEPTS OF PHYSICAL FITNESS & WELLNESS	4 Units	
Four hours lecture.			
Study of physical fitness, training principles, appropriate exercise and health practices with application to lifelong health and exercise habits.			
H P 49	IN-LINE SKATING	1 Unit	
May be taken six times for credit.			
Three hours laboratory.			
Introduction of the discipline of in-line skating. Emphasis on the demonstration, application and practice of in-line skating techniques and skills.			
H P 52	DANCE PRODUCTION: REHEARSAL & PERFORMANCE	2 Units	
May be taken six times for credit.			
Six hours laboratory.			
Foothill repertory and touring dance company. Students gain professional- and advance-level technique training in various dance disciplines and work with master guest artists.			
H P 52A	CLINICAL EXPERIENCES IN SPORTS MEDICINE I	3 Units	
May be taken three times for credit.			
Nine hours lecture-laboratory.			
Hands-on experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Observation of orthopedic surgical procedures with the permission of the team physician is available.			
H P 52B	CLINICAL EXPERIENCES IN SPORTS MEDICINE II	3 Units	
May be taken three times for credit.			
Nine hours laboratory.			
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 52C	CLINICAL EXPERIENCES IN SPORTS MEDICINE III	3 Units	
May be taken three times for credit.			
Nine hours lecture-laboratory.			
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 52F	PNF:INTRODUCTION TO THE UPPER EXTREMITY	3 Units	
Two hours lecture, two hours laboratory.			
Theory and hands on practice emphasizing upper extremity: stretching, strengthening, stabilization and active range of motion including assessment.			
H P 52G	PNF:INTRODUCTION TO THE LOWER EXTREMITY	3 Units	
Two hours lecture, two hours laboratory.			
Theory and hands on practice emphasizing lower extremity stretching, strengthening, stabilization and active range of motion including assessment.			
H P 60	SPECIAL PROJECTS IN PHYSICAL EDUCATION	2 Units	
May be taken six times for credit.			
Six hours lecture-laboratory			
Individual development of special projects, materials and activities related to physical education and athletics.			
H P 61	RUN FOR FITNESS	1 Unit	
May be taken six times for credit.			
Three hours laboratory.			
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.			
H P 62	TAP AEROBICS	1 Unit	
May be taken six times for credit.			
Three hours laboratory.			
Aerobics combined with basic tap dance technique used to enhance muscle strength, endurance training and cardiovascular conditioning.			

HP 62A	BEGINNING TAP DANCE	1 Unit	HP 70	TOPICS IN DANCE HISTORY	4 Units
May be taken three times for credit.			Three hour lecture, three hours laboratory.		
Three hours laboratory.			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.		
HP 62B	INTERMEDIATE TAP DANCE	1 Unit	HP 72	MOVEMENT FOR ACTORS	2 Units
May be taken three times for credit.			May be taken six times for credit.		
Three hours laboratory.			Four hours lecture-laboratory.		
Development of the intermediate technical skills of tap dance. Emphasis is placed on increased difficulty of tap technique, including time steps, rifts and choreography.			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.		
HP 62C	ADVANCED TAP DANCE	1 Unit	HP 73	SPORTS MASSAGE	1 Unit
May be taken three times for credit.			May be taken three times for credit.		
Three hours laboratory.			Three hours laboratory.		
Students will further increase their technical skill in advance tap terminology, rhythm, flash and percussive tap forms. Individual, interpretive and original choreography will be emphasized.			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.		
HP 63	DEEP WATER RUNNING	1 Unit	HP 83	TAI CHI	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Three hours laboratory.		
A unique non-impact form of aquatic exercise designed to improve cardiovascular endurance, muscular strength, endurance, and flexibility while wearing a flotation belt to maintain an upright position in deep water.			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.		
HP 64	BEGINNING BOWLING	1 Unit	HP 83B	ADVANCED TAI CHI	1 Unit
May be taken six times for credit.			May be taken six times for credit.		
Three hours laboratory.			Three hours laboratory.		
A study of beginning bowling skills incorporating kinesthetic awareness, body movement, rhythm, and timing.			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.		
HP 66	TOTAL FITNESS	1 Unit	HP 84	BEGINNING KARATE	.5 Unit
May be taken six times for credit.			HP 84X		1 Unit
Three hours laboratory.			Any combination of HP 84 & 84X may be taken a maximum of six times for credit.		
A program for developing total fitness in flexibility, strength, and cardiovascular conditioning through stretching, weight training and aerobic exercise.			Two hours laboratory.		
HP 67A	PREVENTION OF ATHLETIC INJURIES	3 Units	Introduction to beginning skills and techniques of karate. Includes punching, blocking, striking and kicking techniques.		
Two hours lecture, three hours laboratory.			HP 84A	INTERMEDIATE KARATE	1 Unit
Athletic injury prevention is emphasized through pre-participation physical exams, exercise programs, preventative taping, proper fitting of equipment, and protective braces.			May be taken six times for credit.		
HP 67B	EMERGENCY ATHLETIC INJURY CARE	3 Units	Three hours laboratory.		
Two hours lecture, three hours laboratory.			Intermediate karate skills and techniques. Analysis and application of biomechanics, individual and group interaction, and uses of karate.		
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.			HP 100	FITNESS/HEALTH ASSESSMENT I	1 Unit
HP 67C	TREATMENT & REHABILITATION OF ATHLETIC INJURIES	3 Units	Non-degree applicable credit course.		
Two hours lecture, three hours laboratory.			May be taken six times for credit.		
Follow-up injury treatment, phases of tissue healing, and stages of rehabilitation including therapeutic modalities.			Three hours lecture laboratory.		
HP 68	PHYSICAL FITNESS ASSESSMENT	1 Unit	Fitness assessment techniques employing individual fitness profiles, developed along with nutritional recommendations.		
May be taken six times for credit.			HP 103	TOURNAMENT GOLF FIELD TRIP	1 Unit
Three hours laboratory.			May be taken six times for credit.		
Physical fitness assessment techniques employing an exercise testing lab. Individual physical profiles will be developed along with nutritional recommendations.			Three hours laboratory.		
HP 68B	FITNESS & NUTRITION ASSESSMENT	1 Unit	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.		
May be taken six times for credit.			HP 107	ADVANCED TOURNAMENT GOLF	1 Unit
Three hours lecture-laboratory.			Non-degree applicable credit course.		
Fitness assessment techniques employing individual fitness profiles, developed along with nutritional recommendations.			May be taken six times for credit.		
			Six hours laboratory.		
			On course tournament play on a regulation length local eighteen hole course. All students must demonstrate at least an intermediate level of golfing skill. On course playing lessons will be included. Students will be exposed to many different tournament formats.		

H P 109	GOLF TRAVEL	2 Units	HUMN 1B	HUMANITIES & THE MODERN EXPERIENCE	4 Units
May be taken six times for credit.			Four hours lecture, one hour laboratory.		
Three hours laboratory.			An interdisciplinary survey of some of the cultural aspects of major civilizations from the Italian Renaissance to the present day, and their influence upon modern experiences. Illustrations of the cultural diversity which makes up modern life. Attendance at instructor approved lectures, performing arts events, and/or cultural exhibitions.		
H P 124	TOURNAMENT BADMINTON	1 Unit	HUMN 34	HONORS INSTITUTE SEMINAR IN HUMANITIES	1 Unit
May be taken six times for credit.			Prerequisite: Membership in the Honors Institute.		
Three hours laboratory.			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
Non-degree applicable credit course.			HUMN 36X		2 Units
May be taken six times for credit.			HUMN 36Y		3 Units
Three hours laboratory.			Any combination of HUMN 36, 36X & 36Y may be taken for a maximum of eight units.		
Intermediate/Advanced individual and group instruction on golf swing skills plus tournament play on local par three courses.			One hour lecture.		
H P 127	TOURNAMENT BASKETBALL	1 Unit	Intensive study of selected topics in humanities or interdisciplinary courses in humanities. Subjects may vary from quarter to quarter.		
Non-degree applicable credit course.					
May be taken six times for credit.					
Three hours laboratory.					
An introduction to the fundamental skills and strategies of the team sport of basketball. Skill work drills and full court tournament play.					
H P 127B	INTERMEDIATE BASKETBALL	1 Unit			
Non-degree applicable credit course.			ITALIAN		
May be taken six times for credit.			Language Arts Division		(650) 949-7250
Three hours laboratory.					www.foothill.edu/la/
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 110	ITALIAN LANGUAGE & CULTURE	2.5 Units
May be taken six times for credit.			Two and one-half hours lecture, one hour laboratory.		
Three hours laboratory.			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.		
Participation in tournament soccer competition at an intermediate and advanced level of play.					
H P 130	TOURNAMENT VOLLEYBALL	1 Unit	ITAL 111	ITALIAN LANGUAGE & CULTURE	2.5 Units
May be taken six times for credit.			Non-degree applicable credit course.		
Three laboratory.			Prerequisite: ITAL 110.		
Tournament volleyball competition at an intermediate and advanced level of play. Includes team play, setting, attacking and blocking.			Two and one-half hours lecture, one hour laboratory.		
H P 390		0 Units	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.		
Non-degree applicable credit course.					
Prerequisite: Concurrent enrollment in a Human Performance course.			ITAL 112	ITALIAN LANGUAGE & CULTURE	2.5 Units
Three hours laboratory.			Non-degree applicable credit course.		
Exercise and sport activity will be used to enhance healthy living, increase total fitness and reduce stress.			Prerequisite: ITAL 111.		
			Two and one-half hours lecture, one hour laboratory.		
			Intermediate-level course designed to further deepen students' ability to communicate in Italian on a variety of topics. Emphasis on the active use of Italian in conjunction with acquisition of the four language skills. Particular attention given to the use of tenses. Increased knowledge and understanding of Italy, its customs, its regional differences, and its history.		
HUMANITIES					
Language Arts Division		(650) 949-7556	ITAL 113	ITALIAN LANGUAGE & CULTURE	2.5 Units
		www.foothill.edu/la/	Non-degree applicable credit course.		
HUMN 1A	HUMANITIES & THE MODERN EXPERIENCE	4 Units	Prerequisite: ITAL 112.		
Four hours lecture, one hour laboratory.			Two hours lecture, two hours laboratory.		
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.			Continued practice in grammar, conversation, and composition at an advanced intermediate level. Greater emphasis on refining complex grammatical points. Increased oral and written fluency through exposure to more advanced reading texts and more challenging conversational exercises. Focus on Italy's people, culture, and history for the introduction of lexical themes.		

JAPANESE

Language Arts Division

(650) 949-7043
www.foothill.edu/la/

JAPN 1 ELEMENTARY JAPANESE 5 Units

Five hours lecture, two hours laboratory.

Oral and written practice in the minimum competencies in language functions: vocabulary essential to basic communicative situations, grammar necessary for carrying out functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Introduction to Hiragana, Katakana and about 80 Kanji. Language laboratory practice. [CAN JAPN SEQ A = JAPN 1+2+3]

JAPN 2 ELEMENTARY JAPANESE 5 Units

Prerequisite: JAPN 1 or one year of high school Japanese.

Five hours lecture, two hours laboratory.

Further development of material presented in JAPN 1. Oral and written practice in competencies in language functions: vocabulary essential to daily communicative situations, grammar necessary for carrying out functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Distinguishing formal and informal styles. Additional 120 Kanji pronunciation and recognition. Language laboratory practice. [CAN JAPN SEQ A = JAPN 1+2+3]

JAPN 3 ELEMENTARY JAPANESE 5 Units

Prerequisite: JAPN 2 or two years of high school Japanese.

Five hours lecture, two hours laboratory.

Further development of material presented in JAPN 1 and 2. Oral and written practice in competencies in language functions: vocabulary essential to daily communicative situations, grammar necessary for carrying out various functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Distinguishing formal and informal styles, and using honorifics. Making suppositions. Additional 120 Kanji pronunciation and recognition. Language laboratory practice. [CAN JAPN SEQ A = JAPN 1+2+3]

JAPN 4 INTERMEDIATE JAPANESE 5 Units

Prerequisite: JAPN 3 or three years of high school Japanese.

Five hours lecture, one hour laboratory.

Continuation of JAPN 3. Review of grammar and discussion of grammatical features beyond the elementary level. Introduction to intermediate-level grammar and communicative tasks. Intensive oral and written drills, including additional 110 Kanji, in idiomatic constructions. Composition, conversation and selected readings. Language laboratory practice. [CAN JAPN 8 = JAPN 4+5, CAN JAPN SEQ B = JAPN 4+5+6]

JAPN 5 INTERMEDIATE JAPANESE 5 Units

Prerequisite: JAPN 4 or four years of high school Japanese.

Five hours lecture, one hour laboratory.

Continuation of JAPN 4. Development of intermediate-level grammatical structures and communicative tasks. Further practice in intensive oral and written drills, including additional 150 Kanji, in idiomatic constructions. Composition, conversation and selected readings. Differentiating socio-linguistic features, such as honorifics, feminine and masculine styles. Cultural skills to carry out tasks. Language laboratory practice. [CAN JAPN 8 = JAPN 4+5, CAN JAPN SEQ B = JAPN 4+5+6]

JAPN 6 INTERMEDIATE JAPANESE 5 Units

Prerequisite: JAPN 5.

Five hours lecture, one hour laboratory.

Continuation of JAPN 5. Further development of intermediate-level grammatical structures and communicative tasks. Intensive and extensive oral and written drills, including 230 more Kanji, in idiomatic constructions. Composition, conversation and selected readings. Further competency in correct language usage in different socio-linguistic features of speech. Stating and supporting opinions on both concrete and abstract topics. Cultural skills to carry out tasks. Language laboratory practice. [CAN JAPN SEQ B = JAPN 4+5+6]

JAPN 13A INTERMEDIATE CONVERSATION I

3 Units

Prerequisite: JAPN 3.

Advisory: May be taken concurrently with JAPN 4.

Three hours lecture, one hour laboratory.

Speaking and listening experience in 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 13B INTERMEDIATE CONVERSATION II

3 Units

Prerequisite: JAPN 13A.

Advisory: May be taken concurrently with JAPN 5.

Three hours lecture, one hour laboratory.

Continuation of JAPN 13A. Speaking and listening experience in an environment of increasingly challenging language situation in culturally appropriate ways. Special emphasis on rapidity of correct perception and speaking, acquaintance with a variety of native dialects, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, and debates. Stating and supporting opinions on various topics. Understanding ambiguities, vagaries, and value inherent in the target language.

JAPN 14A ADVANCED CONVERSATION I

3 Units

Prerequisite: JAPN 13B.

Three hours lecture, one hour laboratory.

Development of fluency in the oral/aural language, and cultural skills required in socio-linguistic functions, i.e., honorifics, in-group/out-group, male/female, and formal/informal expressions. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, debates, and drama. Stating and supporting opinions on various topics, including abstract concepts. Understanding and appreciating ambiguities, vagaries, and value inherent in the target language.

JAPN 14B ADVANCED CONVERSATION II

3 Units

Prerequisite: JAPN 14A.

Advisory: May be taken concurrently with JAPN 6.

Three hours lecture, one hour laboratory.

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

Prerequisite: JAPN 6.

Four hours lecture.

Introduction to authentic Japanese written materials intended for native Japanese readers, such as magazine articles, editorials, statistics, and literature. Reading and analysis of texts as exponents of the culture and history. Compositions and advanced grammar. Recognizing about 1,300 kanji. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of reading and writing skills by exploring various forms of literary and other forms of creative thoughts. Understanding ambiguities, vagaries, and value inherent in the target language.

JAPN 25B ADVANCED COMPOSITION & READING 4 Units**Prerequisite:** JAPN 25A.**Four hours lecture.**

Continuation of JAPN 25A. Reading and analysis of authentic Japanese written materials intended for native Japanese readers, as exponents of the culture and history. Development of further skills in reading authentic materials, including magazines, newspaper articles, editorials, literature, and abstract theories. Recognizing more than 1,800 kanji. Practice in writing expository essays. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of reading and writing skills by exploring various forms of literary and other forms of creative thoughts. Understanding and appreciating the ambiguities, vagaries, and value inherent in the target language.

JAPN 33 INTRODUCTION TO JAPANESE CULTURE 4 Units**Advisory:** Concurrent enrollment in JAPN 1, 2, or 3.**Four hours lecture.**

Introduction to Japanese culture, Zen and Confucian influences on social ethics, behavior and attitudes. Emphasis on practical application of discipline and expression through development of skill in brush writing, and analysis and interpretation of haiku.

JAPN 34 HONORS INSTITUTE SEMINAR IN JAPANESE 1 Unit**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
JAPN 36X		2 Units
JAPN 36Y		3 Units
JAPN 36Z		4 Units

Prerequisite: JAPN 5.

Any combination of JAPN 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.

One hour lecture.

A study oriented toward spoken or written practice or both in Japanese. This may entail research and critical techniques adapted to individual writing and/or oral presentation projects under instructor supervision. Specific topics vary from quarter to quarter. This course cannot be substituted for departmental requirements.

JAPN 100 ELEMENTARY JAPANESE FOR ATYP 5 Units**Prerequisite:** Recommendation of school principal.**Five hours lecture, two hours 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.

JAPN 190	DIRECTED STUDY	.5 Unit
JAPN 190X		1 Unit
JAPN 190Y		1.5 Units
JAPN 190Z		2 Units

Advisory: Pass/No Pass.

Any combination of JAPN 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.

One-half hour lecture of individualized instruction for each half unit.

For students who desire or require additional help in attaining comprehension and competency in learning skills.

JAPN 192 COMMUNITY SERVICE LEARNING FOR JAPANESE 1 Unit**Advisory:** Pass/No Pass.**May be taken six times for credit.****One hour lecture, three hours laboratory.**

For students who desire training and technical support in experiential learning as a community volunteer in Japanese language and culture.

KOREAN**Language Arts Division**

(650) 949-7250

www.foothill.edu/la/**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 practice broadening the functions presented in KORE 1 and adding new ones. 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**Prerequisite:** KORE 4 or equivalent.**Five hours lecture, one hour laboratory.**

Continuation of KORE 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.

KORE 6 INTERMEDIATE KOREAN 5 Units**Prerequisite:** KORE 5 or equivalent.**Five hours lecture, one hour laboratory.**

Introduction to reading Korean literature. Further development of grammatical structures presented in first year Korean. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in Korean. Reading and discussion of texts dealing with Korean literature, arts, history and culture.

LANGUAGE ARTS**Language Arts Division**

(650) 949-7250

www.foothill.edu/la/**L A 36 SPECIAL PROJECTS IN LANGUAGE ARTS 1 Unit****L A 36X** 2 Units**L A 36Y** 3 Units**L A 36Z** 4 Units

Any combination of L A 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.

One hour lecture for each unit of 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	LINC 202	CREATING WEB QUESTS FOR & WITH YOUR STUDENTS	2 Units
Advisory: Eligibility for ENGL 1A.			Advisory: Familiarity with PC or Mac. Basic Internet skills.		
May be taken six times for credit.			May be taken six times for credit.		
Two hours lecture-laboratory.			Two hours lecture, two hours terminal time.		
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.			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.		
L A 111	PASS THE TORCH TEAM LEADER TRAINING	1 Unit	LINC 203	FUNDAMENTALS OF INTERNET TECHNOLOGY FOR EDUCATORS	5 Units
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.			Advisory: Familiarity with PC or Mac. Basic Internet skills.		
May be taken three times for credit.			May be taken three times for credit.		
One hour lecture.			Four hours lecture, four hours terminal time.		
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.			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.		
L A 189	SPECIAL STUDIES LABORATORY	.5 Unit	LINC 204	INTRODUCTION TO THE INTERNET & EMAIL FOR THE EDUCATOR	1 Unit
L A 189X		1 Unit	Non-degree applicable credit course.		
L A 189Y		1.5 Units	Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.		
L A 189Z		2 Units	May be taken six times for credit.		
Advisory: Pass/No Pass.			One hour lecture, one hour terminal time.		
Any combination of L A 189, 189X, 189Y & 189Z may be taken a maximum of six times for credit.			This is beginning for teachers and administrators to introduce them to using the Internet for personal research and in their classrooms. Methods to better integrate the Internet into the curriculum will be addressed. The course emphasizes browser and email basics, search techniques, exploring search engines, evaluate web sites, and understand copyright and citation documentation. Participants will create and organize a Bookmark or Favorites list of essential Web sites.		
One and one-half hours laboratory for each half unit.					
For students who desire or require additional help in attaining comprehension and competency in learning skills.					
L A 190	DIRECTED STUDY	.5 Unit	LINC 205	WEB PAGE DESIGN FOR EDUCATORS USING MS FRONTPAGE	1 Unit
L A 190X		1 Unit	Advisory: Familiarity with PC or Mac. Basic Internet skills.		
L A 190Y		1.5 Units	May be taken six times for credit.		
L A 190Z		2 Units	One hour lecture, one hour terminal time.		
Non-degree applicable credit course.			Design and creation of World Wide Web pages using MS FrontPage. Hands-on experience creating Web pages. Intended for Continuing Education.		
Advisory: Pass/No Pass.					
Any combination of L A 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.					
One half-hour lecture for each half unit of 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	LINC 206	INTRODUCTION TO THE INTERNET FOR EDUCATORS	1 Unit
Non-degree applicable credit course.			Non-degree applicable credit course.		
Advisory: Pass/No Pass.			Advisory: Familiarity with PC or Mac. Basic Internet skills.		
May be taken six times for credit.			May be taken six times for credit.		
One hour lecture, three hours laboratory.			One hour lecture, one hour terminal time.		
For students who desire training and technical support in experiential learning as a community volunteer in specific language arts disciplines.			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.		

LEARNING IN NEW MEDIA CLASSROOMS

Computers, Technology & Information Systems Division	(650) 949-7498
www.foothill.edu/kci/linc/	
LINC 200	WEB PAGE DESIGN FOR EDUCATORS USING ADOBE GOLIVE
Non-degree applicable credit course.	
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.	
May be taken six times for credit.	
One hour lecture, two hours terminal time.	
Design and creation of World Wide Web pages using Adobe GoLive. Hands-on experience creating Web pages. Intended for Continuing Education.	

LINC 207	NETSCAPE COMPOSER FOR EDUCATORS	1 Unit
Non-degree applicable credit course.		
Advisory: Familiarity with PC or Mac. Basic Internet skills.		
One hour lecture, one hour terminal time.		
Provides the process for creating a web site using Netscape Composer, a free web authoring tool. How to include text, graphics, tables, links to other web sites, and anchors will be addressed. Ideas for creating a student web-based project will be discussed.		

LINC 208	ADVANCED SEARCHING & RESEARCHING THE INTERNET FOR EDUCATORS	2 Units	LINC 222	CHOOSING THE BEST MULTIMEDIA FOR STUDENT PROJECTS	2 Units
Non-degree applicable credit course.			Non-degree applicable credit course.		
Advisory: Familiarity with PC or Mac. Basic Internet and Email skills.			May be taken six times for credit.		
May be taken six times for credit.			Two hours lecture, two hours terminal time.		
Two hours lecture, two hours terminal time.			This course is an overview of the pros and cons of several software applications that are used as tools for student projects. An analysis of the tools that deepen student learning of academic content will be discussed. Participants will try creating mini projects using various software and analyzing their own learning. Applications such as Inspiration, Photoshop MovieWorks, HyperStudio, PowerPoint, Creator, and MicroWorlds Pro will be explored.		
This is an intermediate to advanced course for teachers and administrators who currently use the Internet for personal research and in their classrooms. Methods to better integrate the Internet into the curriculum will be addressed. The course emphasizes using advanced search techniques that incorporate critical thinking, essential questions, and inquiry-based learning to narrow searches, explore search engines, evaluate web sites, and understand copyright and citation documentation. Participants will create an Internet treasure hunt or WebQuest to use with students.					
LINC 209	SOFTWARE FOR WEB PAGE DESIGN: DREAMWEAVER	1 Unit	LINC 223	ePORTFOLIOS FOR EDUCATORS & STUDENTS	1 Unit
Non-degree applicable credit course.			May be taken six times for credit.		
Advisory: Familiarity with PC or Mac. Basic Internet and Email skills.			One hour lecture, one hour terminal time.		
May be taken six times for credit.			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.		
One hour lecture, two hours terminal time.					
Design and creation of World Wide Web pages using Macromedia Dreamweaver. Hands-on experience creating Web pages. Intended for Continuing Education.					
LINC 210	CREATING GREAT EDUCATIONAL WEB SITES	2 Units	LINC 224	GLOBAL PROJECT-BASED LEARNING	2 Units
May be taken six times for credit.			Non-degree applicable credit course.		
Two hours lecture, two hours terminal time.			Advisory: Familiarity with PC or Mac. Basic Internet skills.		
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.			May be taken six times for credit.		
			Two hours lecture, two hours terminal time.		
			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.		
LINC 211	WORLD WIDE WEB PAGE DESIGN FOR EDUCATORS	1 Unit	LINC 225	INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM	2 Units
Non-degree applicable credit course.			Non-degree applicable credit course.		
Advisory: Familiarity with PC or Mac. Basic Internet and Email skills.			Advisory: Familiarity with PC or Mac. Basic Internet skills.		
May be taken two times for credit.			May be taken six times for credit.		
One hour lecture, two hours terminal time.			Two hours lecture, two hours terminal time.		
Design and creation of World Wide Web pages. Hands-on experience creating Web pages. Intended for Continuing Education.			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.		
LINC 214	INTEGRATING TECHNOLOGY USING ONLINE COLLABORATION TOOLS	2 Units	LINC 226	OVERVIEW OF INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM	1 Unit
Advisory: Familiarity with PC or Mac. Basic Internet skills.			Advisory: Familiarity with PC or Mac. Basic Internet skills.		
May be taken six times for credit.			May be taken six times for credit.		
Two hours lecture, two hours terminal time.			One hour lecture, one hour terminal time.		
Collaboration is a fundamental basic skill of learning and work in the 21st century. This course will explore some different kinds of collaborative technologies using the Internet and web-and how these can be integrated with curriculum and student projects to help provide students with experience in both effective communication and learning using new media, as well as providing teachers tools for planning and assessing collaborative student projects.			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.		
LINC 220	OVERVIEW OF TECHNOLOGY ETHICS & CYBER LAW FOR EDUCATORS	1 Unit	LINC 227	ROBOTICS IN THE CLASSROOM FOR EDUCATORS	2 Units
Advisory: Familiarity with PC or Mac. Basic Internet skills.			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 two times for credit.			Two hours lecture, two hour terminal time.		
One hour lecture, one hour terminal time.			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.		
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			
Advisory: Familiarity with PC or Mac. Basic Internet skills.					
May be taken three times for credit.					
One hour lecture, one 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.					

LINC 228	SELECTED TOPICS IN THE LINC PROGRAM FOR EDUCATORS	1 Unit	LINC 235	ADOBE LIVEMOTION	1 Unit
Non-degree applicable credit course.			Advisory: Familiarity with Adobe GoLive or similar Web page authoring software, Adobe Photoshop or similar photo editing software, QuickTime, and Macromedia Flash.		
May be taken six times for credit.			May be taken six times for credit.		
One hour lecture, one hour terminal time.			One hour lecture, one hour terminal time.		
Using various applications in the context of the K-12 classroom.			Adobe LiveMotion is an application that allows for the creation of dynamic, interactive content in a variety of formats, including Macromedia™ Flash® (SWF) and QuickTime®. It provides support for ActionScript, combined with design, coding and debugging tools, and allows for the creation of animated content for the Web and other media.		
LINC 229	OVERVIEW OF ADOBE PAGEMAKER FOR EDUCATORS	1 Unit	LINC 236	ADOBE PREMIER FOR EDUCATORS	1 Unit
Non-degree applicable credit course.			Advisory: Familiarity with PC or Mac, scanning photos, using a digital still and digital video camera.		
Advisory: Familiarity with PC or Mac.			May be taken six times for credit.		
May be taken six times for credit.			One hour lecture, one hour terminal time.		
One hour lecture, one hour terminal time.			Adobe Premiere provides students with skills necessary to create digital movies. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and the 'Ken Burns Effect' as well as other special effects in their movies.		
Provides the basics of page layout using Adobe PageMaker. Participants will create a publication by placing text and graphics. Instruction will include PageMaker's drawing tools.					
LINC 230	ADOBE PHOTOSHOP FOR EDUCATORS	1 Unit	LINC 237	INTRODUCTION TO MACROMEDIA FIREWORKS FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac. Basic Internet skills.			Advisory: Familiarity with PC or Mac.		
May be taken six times for credit.			May be taken six times for credit.		
One hour lecture, one hour terminal time.			One hour lecture, one hour terminal time.		
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.			Provides hands-on experience with the basic elements and tools of Macromedia Fireworks, a digital photo editing software, to set up files, manage documents, and perform basic image processing. Includes basic concepts and methods of developing images and creating special effects and problem solving.		
LINC 231	OVERVIEW OF ADOBE PHOTOSHOP ELEMENTS FOR EDUCATORS	1 Unit	LINC 238	MACROMEDIA FLASH	1 Unit
Advisory: Familiarity with PC or Mac. Basic Internet skills.			Advisory: Familiarity with Fireworks or similar photo editing software and with DreamWeaver or similar Web page authoring software.		
May be taken three times for credit.			May be taken six times for credit.		
One hour lecture, one hour terminal time.			One hour lecture, one hour terminal time.		
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.			Macromedia Flash is an animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video. Intended for Continuing Education.		
LINC 232	OVERVIEW OF ADOBE ACROBAT FOR EDUCATORS	1 Unit	LINC 239	MACROMEDIA DIRECTOR FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac.			Advisory: Familiarity with Mac or PC; Basic word processing, multimedia and image editing software.		
May be taken six times for credit.			May be taken six times for credit.		
One hour lecture, one hour terminal time.			One hour lecture, one hour terminal time.		
Provides hands on experience using Adobe Acrobat. The student will learn how to publish teacher and student on the Internet, retaining their original format.			Macromedia Director is an 2D animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video. Add interactivity to presentations and student projects Intended for Continuing Education.		
LINC 233	OVERVIEW OF ADOBE ILLUSTRATOR FOR EDUCATORS	1 Unit	LINC 240	MACROMEDIA FREEHAND FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC or Mac.			Advisory: Familiarity with PC or Mac.		
May be taken six times for credit.			May be taken six times for credit.		
One hour lecture, one hour terminal time.			One hour lecture, one hour terminal time.		
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.			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 234	OVERVIEW OF ADOBE INDESIGN FOR EDUCATORS	1 Unit	LINC 241	OVERVIEW OF iMOVIE	1 Unit
Advisory: Familiarity with PC or Mac and any word processing software.			Non-degree applicable credit course.		
May be taken six times for credit.			Advisory: Familiarity with Mac.		
One hour lecture, one hour terminal time.			May be taken six times for credit.		
InDesign is an application for the creation of flyers, newsletters, yearbooks, trifold brochures 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.			One hour lecture, one hour terminal time.		
Using the software application, iMovie, to produce movies on the computer with video clips captured from a video format camcorder with background audio, voice-over narrations, sound effects, transitions and titles.			Using the software application, iMovie, to produce movies on the computer with video clips captured from a video format camcorder with background audio, voice-over narrations, sound effects, transitions and titles.		

LINC 242	OVERVIEW OF CREATING ANIMATIONS WITH MORPHINK	1 Unit	LINC 251	OVERVIEW OF MULTIMEDIA FOR EDUCATORS	1 Unit
Advisory: Familiarity with PC. May be taken six times for credit. One hour lecture, one hour terminal time. Provides hands on experience using the animation software, Morphink. Participants will develop animation skills.			Non-degree applicable credit course. May be taken six times for credit. One hour lecture, one hour terminal time. Introduction to various multimedia software and tools and the multimedia production process. Hands-on experience various software to integrate text, graphics, animation, sound, and digital movies into multimedia projects and presentations.		
LINC 243	BASIC PROGRAMMING FOR EDUCATORS & STUDENTS WITH STAGECAST CREATOR	1 Unit	LINC 252	MULTIMEDIA IN THE CLASSROOM	1 Unit
Advisory: Familiarity with PC or Mac. May be taken six times for credit. One hour lecture, two hours terminal time. Using the software application, STAGECAST CREATOR, the student moves beyond the world of traditional multimedia authoring to construct computer based simulation to express his/her understanding of virtually any academic topic.			Non-degree applicable credit course. May be taken six times for credit. One hour lecture, one hour terminal time. Introduction to how to integrate various multimedia software and tools along with the production process, into the classroom. Hands-on experience various software to integrate text, graphics, animation, sound, and movies.		
LINC 244	CREATING DIGITAL MOVIES WITH MOVIEWORKS	1 Unit	LINC 255	TECHNOLOGY IN THE K-12 CLASSROOM FOR EDUCATORS	1 Unit
Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken six times for credit. One hour lecture, one hour terminal time. Provides students with 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.			Advisory: Familiarity with PC or Mac. May be taken six times for credit. One hour lecture, two hours terminal time. Using a variety of software applications, the student moves beyond the world of traditional multimedia authoring to construct computer based simulation to express his/her understanding of virtually any academic topic.		
LINC 245	HYPERSTUDIO FOR EDUCATORS	1 Unit	LINC 256	iTOOLS MAC FOR OS X	1 Unit
Advisory: Familiarity with PC or Macintosh. May be taken six times for credit. One hour lecture, one hour terminal time. Provides hands on experience using the HyperStudio Participants will develop a project suitable for use in the classroom.			Non-degree applicable credit course. Advisory: Familiarity with Macintosh and OS X. May be taken six times for credit. One hour lecture, one hour terminal time. Provides hands on experience with a Macintosh computer and the OS X iTools programs such as iPhoto, iTunes, iMove, iDisk, and their interactivity.		
LINC 246	INTRODUCTION TO PRESENTATION SOFTWARE FOR EDUCATORS: POWERPOINT	1 Unit	LINC 260	ASSESSMENT STRATEGIES FOR TECHNOLOGY INTEGRATION FOR EDUCATORS	1 Unit
Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken six times for credit. One hour lecture, one hour terminal time. Provides students with 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.			Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Familiarity with technology integration in the classroom and the Internet. May be taken six times for credit. One hour lecture, one hour terminal time. Provides techniques for assessing what technology can do to improve students' higher order thinking skills. Students will learn how to use assessment to drive learning. They will learn assessment strategies for students' multimedia projects		
LINC 247	KID PIX FOR EDUCATORS	.5 Unit	LINC 261	INTEGRATING TECHNOLOGY INTO THE LANGUAGE ARTS CURRICULUM	1 Unit
Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken six times for credit. One-half hour lecture, one-half hour terminal time. 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.			Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills. May be taken six times for credit. One hour lecture, one hour terminal time. How to integrate a student-centered technology project based on the California Language Arts Content Standards, State approved language arts text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.		
LINC 248	KIDWORKS DELUXE FOR EDUCATORS	.5 Unit	LINC 262	INTEGRATING TECHNOLOGY INTO THE SCIENCE CURRICULUM	1 Unit
Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken six times for credit. One-half hour lecture, one-half hour terminal time. Provides students with skills necessary to create projects using KidWorks Deluxe. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their KidWorks Deluxe Slide Show.			Non-degree applicable credit course. Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills. May be taken six times for credit. One hour lecture, one hour terminal time. How to integrate a student-centered technology project based on the California Language Arts Content Standards, State approved language arts text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.		
LINC 250	OVERVIEW OF APPLEWORKS	1 Unit			
Non-degree applicable credit course. Advisory: Basic understanding how to use a Macintosh Computer. May be taken six times for credit. One hour lecture, one hour terminal time. AppleWorks allows you to create word processed documents, draw, paint, create spreadsheets with charts and graphs and create a basic data base. In this course you will get an overview of how to use the various components of Appleworks.					

LINC 263	INTEGRATING TECHNOLOGY INTO THE MATHEMATICS CURRICULUM	1 Unit	LINC 285	ALPHASMARTS IN THE CLASSROOM FOR EDUCATORS	1 Unit
Non-degree applicable credit course.			Non-degree applicable credit course.		
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.			Advisory: Familiarity with PC or Mac.		
May be taken six times for credit.			May be taken two times for credit.		
One hour lecture, one hour terminal time.			One hour lecture, two hours terminal time.		
How to integrate a student-centered technology project based on the California Mathematics Content Standards, State approved Mathematics text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.			How to use the AlphaSmart Keyboard in the classroom; hands-on experience. Intended for Continuing Education.		
LINC 264	INTEGRATING TECHNOLOGY INTO THE SOCIAL STUDIES CURRICULUM	1 Unit	LINC 286	INTERMEDIATE/ADVANCED FIREWORKS	1 Unit
Non-degree applicable credit course.			Non-degree applicable credit course.		
Advisory: Familiarity with PC or Mac. Familiarity with basic Internet skills.			Advisory: Familiarity with Fireworks and DreamWeaver.		
May be taken six times for credit.			May be taken six times for credit.		
One hour lecture, one hour terminal time.			One hour lecture, one hour terminal time.		
How to integrate a student-centered technology project based on the California Social Studies Content Standards, State approved Social Studies text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.			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.		
LINC 270	MICROSOFT WORD FOR EDUCATORS	1 Unit	LINC 287	INTERMEDIATE/ADVANCED MACROMEDIA FLASH	1 Unit
Advisory: Familiarity with PC or Mac.			Non-degree applicable credit course.		
May be taken six times for credit.			Advisory: Familiarity with Flash, Fireworks and DreamWeaver.		
One hour lecture, one hour terminal time.			May be taken six times for credit.		
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.			One hour lecture, one hour terminal time.		
LINC 271	MICROSOFT EXCEL FOR EDUCATORS	1 Unit	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.		
Advisory: Familiarity with PC or Mac.					
May be taken six times for credit.					
One hour lecture, one hour terminal time.					
Provides ways to use the Excel software application, including the use of formulas for student and teacher projects. Creating and modifying Excel spreadsheets, databases, charts and graphs will be included.					
LINC 272	OVERVIEW OF MICROSOFT WORD OFFICE FOR EDUCATORS	1 Unit	LINC 292A	GET TO KNOW YOUR HANDHELD FOR EDUCATORS	.5 Unit
Advisory: Familiarity with PC or Mac. Basic Internet skills.			Non-degree applicable credit course.		
May be taken six times for credit.			Advisory: Familiarity with basic computer skills.		
One hour lecture, one hour terminal time.			May be taken six times for credit.		
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.			One-half hour lecture, one-half hour terminal time.		
LINC 273	MICROSOFT ACCESS BASICS FOR EDUCATORS	1 Unit	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.		
Advisory: Familiarity with PC or Mac.					
May be taken two times for credit.					
One hour lecture, two hours terminal time.					
Introduction to Access, a relational database tool; hands-on experience. Intended for Continuing Education.					
LINC 275	OVERVIEW OF FILEMAKER PRO FOR EDUCATORS	1 Unit	LINC 292B	EXPLORING EDUCATIONAL APPLICATIONS FOR HANDHELD DEVICES FOR EDUCATORS	.5 Unit
Non-degree applicable credit course.			Non-degree applicable credit course.		
Advisory: Basic computer skills, how to use the keyboard and a mouse, and a basic understanding of how to use menus is advisable.			Advisory: Familiarity with basic computer skills.		
May be taken six times for credit.			May be taken six times for credit.		
One hour lecture, one hour terminal time.			One-half hour lecture, one-half hour terminal time.		
Introduction to Filemaker Pro, a relational database tool; hands-on experience. Intended for Continuing Education.			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 bNooks, graffiti, beaming, downloading and using available software, and other tools and functions. Emphasis on educational applications available.		
LINC 293	BASIC INTRODUCTION TO THE COMPUTER FOR EDUCATORS	1 Unit	LINC 293	BASIC INTRODUCTION TO THE COMPUTER FOR EDUCATORS	1 Unit
Non-degree applicable credit course.			Non-degree applicable credit course.		
May be taken three times for credit.			May be taken three times for credit.		
One hour lecture, one hour terminal time.			One hour lecture, one hour terminal time.		
Hands-on introduction to the computer: Hardware Components; Basic Interface, File Organization; Operating System; Introduction to Word Processing, Spreadsheets, & Graphics.			Hands-on introduction to the computer: Hardware Components; Basic Interface, File Organization; Operating System; Introduction to Word Processing, Spreadsheets, & Graphics.		

LINC 294	INTRODUCTION TO THE COMPUTER FOR EDUCATORS	4 Units	LIBR 71	RESEARCH PAPER SEARCH STRATEGIES	1 Unit
Non-degree applicable credit course.					
Two hours lecture, two hours lecture-laboratory, two hours terminal time.					
Introduction to the computer and its uses for the student with little or no computer experience. 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.					
LINC 295	INTRODUCTION TO THE MACINTOSH FOR EDUCATORS	1 Unit	LIBR 90A-D	LIBRARY INFORMATION SEMINARS	.5 Unit
Advisory: Familiarity with Macintosh.					
May be taken six times for credit.					
One hour lecture, one hour terminal time.					
Provides hands on experience with a Macintosh computer. Hardware components and capabilities will be explored, along with basic troubleshooting skills.					
LINC 296	INTRODUCTION TO THE PC FOR EDUCATORS	1 Unit	LIBR 190	DIRECTED STUDY	.5 Unit
Non-degree applicable credit course.					
Advisory: Familiarity with PC recommended.					
May be taken six times for credit.					
One hour lecture, one hour terminal time.					
Provides hands on experience with a Windows environment on a PC. Hardware components and capabilities will be explored, along with basic troubleshooting skills.					
LINC 297	MAC OS X FOR EDUCATORS	.5 Unit	LIBR 190X	1 Unit	
Non-degree applicable credit course.					
Advisory: Familiarity with Macintosh.					
May be taken six times for credit.					
One-half hour lecture, one-half hour terminal time.					
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) 949-7608
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 IN LIBRARY SCIENCE 1 Unit

LIBR 36X 2 Units

LIBR 36Y 3 Units

LIBR 36Z 4 Units

Advisory: Pass/No Pass.

Any combination of LIBR 36, 36X, 36Y & 36Z may be taken a maximum of six times for credit.

One hour lecture for each unit of 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 71	RESEARCH PAPER SEARCH STRATEGIES	1 Unit
May be taken two times for credit.		
One hour lecture.		
Strategies and methods to identify a research topic and then find and evaluate information in various formats to meet the identified information needed. Consideration of the ethical and legal uses of information. Multi-disciplinary application of concepts covering multicultural topics.		
LIBR 90A-D LIBRARY INFORMATION SEMINARS .5 Unit		

Advisory: Pass/No Pass.
May be taken six times for credit.
One-half hour lecture.

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

Non-degree applicable credit course.

Advisory: Pass/No Pass.

Any combination of LIBR 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.

One-half hour lecture, one and one-half hours lecture-laboratory.

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/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, CAN MATH 18 = MATH 1A+1B, CAN MATH SEQ B = MATH 1A+1B+1C, CAN MATH SEQ C = MATH 1A+1B+1C+1D]

MATH 1B CALCULUS 5 Units

Prerequisite: MATH 1A

Five hours lecture, one hour laboratory.

Introduction to integral calculus including definite and indefinite integrals, the first and second Fundamental Theorems and their applications to geometry, physics, and the solution of elementary differential equations. [CAN MATH 18 = MATH 1A+1B, CAN MATH 19, CAN MATH SEQ B = MATH 1A+1B+1C, CAN MATH SEQ C = MATH 1A+1B+1C+1D, CAN MATH 20 = MATH 1B+1C]

MATH 1C CALCULUS 5 Units

Prerequisite: MATH 1B

Five hours lecture, one hour terminal time.

Introduction to functions of more than one variable, including vectors, partial differentiation, the gradient, contour diagrams and optimization. Additional topics include infinite series, convergence, Taylor and Fourier series. [CAN MATH 20 = MATH 1B+1C, CAN MATH 21, CAN MATH SEQ B = MATH 1A+1B+1C, CAN MATH SEQ C = MATH 1A+1B+1C+1D, CAN MATH 22 = MATH 1C+1D]

MATH 1D CALCULUS	5 Units	MATH 36 SPECIAL PROJECTS IN MATHEMATICS	1 Unit
Prerequisite: MATH 1C.		MATH 36X	2 Units
Five hours lecture, one hour laboratory.		MATH 36Y	3 Units
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 22 = MATH 1C+1D, CAN MATH 23, CAN MATH SEQ C = MATH 1A+1B+1C+1D]		Advisory: High interest in the pursuit of mathematical knowledge.	
MATH 2A DIFFERENTIAL EQUATIONS	5 Units	Previous experience in mathematics recommended.	
Prerequisite: MATH 1C.		Any combination of MATH 36, 36X & 36Y may be taken for a maximum of six units.	
Five hours lecture, one hour laboratory.		Three hours laboratory.	
Differential equations and selected topics of mathematical analysis. [CAN MATH 24]		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 2B LINEAR ALGEBRA	5 Units	MATH 44 QUANTITATIVE REASONING	5 Units
Prerequisite: MATH 1C.		Prerequisite: Satisfactory score on the mathematics placement exam or MATH 105.	
Five hours lecture, one hour laboratory.		Advisory: Eligibility for ENGL 1A or ESL 26.	
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]		Five hours lecture, one hour laboratory.	
Five hours lecture, one hour computer terminal time.		A survey of mathematical models and other tools to introduce the nonspecialist to the methods of quantitative reasoning. Problem solving by Polya's method with analytic, numeric, graphical, and verbal investigation. Selecting, constructing, and using mathematical models. Interpreting quantitative results in qualitative context. Emphasis on deductive reasoning and formal logic; algebraic, exponential, logarithmic, and trigonometric models; probability and the normal distribution; data analysis; and selected topics from discrete math, finite math, and statistics. [CAN MATH 2]	
MATH 10 ELEMENTARY STATISTICS	5 Units	MATH 46 NUMBER SYSTEMS	5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 104 or 105.		Prerequisites: Satisfactory score on the mathematics placement test or MATH 105.	
Five hours lecture, one hour computer terminal time.		Five hours lecture.	
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]		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 11 FINITE MATHEMATICS	5 Units	MATH 49 PRECALCULUS	5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 104 or 105.		Prerequisite: Satisfactory score on the mathematics placement test or MATH 51.	
Five hours lecture, one hour laboratory.		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]		Functions, graphing and elements of plane analytic geometry. Selected topics in precalculus in preparation for calculus. [CAN MATH 10]	
MATH 12 CALCULUS FOR BUSINESS & ECONOMICS	5 Units	MATH 51 TRIGONOMETRY	5 Units
Prerequisite: MATH 11.		Prerequisite: Satisfactory score on the mathematics placement test or MATH 105.	
Five hours lecture, one hour laboratory.		Advisory: MATH 102 recommended.	
Elementary ideas of differential and integral calculus. Differentiation of multivariate functions with their applications. Applications to business and economics. [CAN MATH 34]		Five hours lecture, one hour laboratory.	
Five hours lecture, one hour laboratory.		The theory of trigonometric functions and the applications of trigonometry. Topics include: radian measure and circular functions, graphs, identities, inverse trigonometric functions, trigonometric equations, vectors, and complex numbers. [CAN MATH 8]	
MATH 22 DISCRETE MATHEMATICS	5 Units	MATH 100 OPEN COMPUTER LABORATORY	.5 Unit
Prerequisite: MATH 49.		MATH 100X	1 Unit
Advisory: Not open to students with credit in CIS 18.		MATH 100Y	2 Units
Five hours lecture, one hour laboratory.		Any combination of MATH 100, 100X & 100Y may be taken a maximum of six times for credit.	
Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees. [CAN CSCI 26 = CIS 18 OR MATH 22]		One and one-half hours laboratory for each half unit of credit.	
Individual study and/or guidance provided for students who desire or require additional assistance in any of the mathematics courses.			
MATH 34 HONORS INSTITUTE SEMINAR	1 Unit	MATH 101 ELEMENTARY ALGEBRA	5 Units
MATH 34X IN MATHEMATICS	2 Units	Prerequisite: Satisfactory score on the mathematics placement test or MATH 200 or a certificate of completion in MATH 230.	
MATH 34Y	3 Units	Advisory: A passing grade in MATH 230 alone does not meet the prerequisite.	
Prerequisite: Membership in the Honors Institute.		Five hours lecture, one hour laboratory.	
One hour lecture.		Fundamental algebraic operations, real numbers, first degree equations, first degree inequalities, graphs, linear systems, operations on polynomials and factoring.	
A seminar in directed readings, discussions and projects in mathematics. Specific topics to be determined by the instructor.			

MATH 102 ELEMENTARY PLANE GEOMETRY	5 Units	
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101. Five hours lecture, one hour laboratory.		
Development of geometric theory and concepts, deduction and proof, application to the solutions of practical problems.		
MATH 103 ESSENTIALS OF INTERMEDIATE ALGEBRA I	5 Units	
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.		
Advisory: This course is an option for students who intend to obtain an AA degree without transferring to a four-year institution. Students may not receive credit for both MATH 105 and 103-104.		
Five hours lecture, one hour laboratory.		
Linear, quadratic, polynomial, exponential and logarithmic functions with an emphasis on graphing and applications. These applications will cover diverse fields, including but not limited to biology, business, physical sciences, social sciences and general data analysis.		
MATH 104 ESSENTIALS OF INTERMEDIATE ALGEBRA II	5 Units	
Prerequisite: MATH 103.		
Advisory: Students may not receive credit for both MATH 105 and 103-104.		
Five hours lecture, one hour laboratory.		
Linear systems of three equations in three unknowns, rational expressions and equations, radical expressions and equations, polynomials and complex numbers. This course is intended for students who have taken MATH 103 and who wish to fulfill the prerequisites for MATH 10, 11, or 51.		
MATH 105 INTERMEDIATE ALGEBRA	5 Units	
Prerequisite: Satisfactory score on the mathematics placement test or MATH 101.		
Advisory: This course is for students who intend to transfer to a four-year institution. Students may not receive credit for both MATH 105 and 103-104.		
Five hours lecture, one hour laboratory.		
Linear, quadratic, polynomial, rational, radical, exponential and logarithmic functions and expressions with an emphasis on graphing and applications. This course is for students who intend to transfer to a four-year institution.		
MATH 127 INTRODUCTION TO MATHEMATICA	1 Unit	
Advisory: MATH 1A (may be taken concurrently).		
One hour lecture, one hour 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.		
MATH 190 DIRECTED STUDY	.5 Unit	
MATH 190W	6 Units	
MATH 190X	1 Unit	
MATH 190Y	1.5 Units	
MATH 190Z	2 Units	
Advisory: Pass/No Pass.		
Any combination of MATH 190, 190W, 190X, 190Y & 190Z may be taken a maximum of six times for credit.		
One-half hour lecture, one and one-half hours laboratory for each half unit of credit.		
For students who desire or require additional help in attaining comprehension and competency in learning skills.		
MATH 200 PREALGEBRA	5 Units	
Prerequisite: Satisfactory score on the mathematics placement test or MATH 250 or 250L. Students may not receive credit for both MATH 200 and 200 A, B, C, D, E.		
Five hours lecture, one hour laboratory.		
Review of addition, subtraction, multiplication and division of whole numbers, fractions and decimals. Addition, subtraction, multiplication and division of signed numbers. Introduction to algebraic concepts including solving first degree equations and evaluating and simplifying expressions. Development and applications of ratios, proportions, percents, geometric concepts and basic algebra.		
MATH 230 PREPARING FOR ALGEBRA	5 Units	
Corequisite: Concurrent enrollment in MATH 231		
Advisory: Pass/No Pass. The prerequisite for MATH 101 is met by completing all MATH 230 modules (a certificate of completion is issued at that time). A passing grade in MATH 230 alone does not meet the prerequisite for MATH 101. Not open to students with credit in MATH 200.		
May be repeated three times for credit.		
Five hours lecture.		
Addition, subtraction, multiplication and division of whole numbers, fractions, decimals and signed numbers. Introduction to algebraic concepts including solving first-degree equations and evaluating and simplifying expressions. Development and applications of ratios, proportions, percents, geometric concepts and basic algebra.		
MATH 231 MATH SPECIFIC STUDY SKILLS	5 Units	
Advisory: Pass/No Pass.		
Corequisite: Concurrent enrollment in MATH 230.		
May be repeated three times for credit.		
Five hours lecture.		
Individualized study and guidance to support students enrolled in MATH 230. Development of math specific study skills and problem solving techniques.		
MATH 250 ARITHMETIC	5 Units	
Advisory: Not open to students with credit in MATH 250L.		
Five hours lecture, one hour laboratory.		
Study of basic concepts of arithmetic. Topics include addition, subtraction, multiplication, division, order of operations on whole numbers, fractions, and decimals. This course is intended as a preparation for MATH 200.		
MATH 250L BASIC COLLEGE MATHEMATICS	6 Units	
Advisory: Not open to students with credit in MATH 250.		
Five hours lecture, three hours laboratory.		
Basic concepts of arithmetic and study skills. Topics include techniques and strategies for learning mathematics, addition, subtraction, multiplication, division, order of operations on whole numbers, fractions, and decimals, and introduction to ratios and rates. This course is intended as a preparation for MATH 200.		

METEOROLOGY

MET 10 WEATHER PROCESSES	4 Units
Four hours lecture.	
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.	
MET 10L METEOROLOGY LABORATORY	1 Unit
Corequisites: MET 10.	
One hour lecture-laboratory, two 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.	
MET 34 HONORS INSTITUTE SEMINAR IN METEOROLOGY	1 Unit
Prerequisite: Membership in the Honors Institute.	
One hour lecture.	
A seminar in directed readings, discussions and projects in meteorology. Specific topics to be determined by the instructor.	

MET 36	SPECIAL PROJECTS IN METEOROLOGY	1 Unit
MET 36X		2 Units
MET 36Y		3 Units

Advisory: High interest in the pursuit of meteorological knowledge. Previous experience in meteorology recommended. Any combination of MET 36, 36X & 36Y may be taken for a maximum of six units. **Three hours laboratory.**
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.

MUSIC

Fine Arts & Communication Division (650) 949-7141
www.foothill.edu/fa/

MUS 1	INTRODUCTION TO MUSIC	4 Units
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Four hours lecture, two hours laboratory.

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.

MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES OF WESTERN CIVILIZATION	4 Units
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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 MASTERPIECES OF WESTERN CIVILIZATION	4 Units
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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
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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, Varése, Babbitt, Cage, Crumb, Ligeti, Penderecki, Reich, Glass and Adams.

MUS 2D	WORLD MUSIC	4 Units
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Four hours lecture, one hour laboratory.

World Music online will develop a listening perception and appreciation through a survey of the music and artistic media of East Asia (Japan and China), Asia (Indochina and Indonesia), Africa, Middle East, North and South India, Central and South (Latin) America, Central and South-Eastern Europe, Polynesian, Caribbean, and other areas of the world. In addition to the non-Western European music, the online course will explore the culture and socioeconomic background of each non-western group and its impact and importance in the world's music of yesterday and today. Another primary objective of World Music online is to experience and study the musical practices and perspectives from several music cultures with an emphasis on understanding and appreciation from non-ethnocentric viewpoints.

MUS 3A	BEGINNING MUSIC THEORY, LITERATURE & COMPOSITION	5 Units
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Advisory: MUS 12A strongly recommended.

Corequisite: MUS 3AL.

Four hours lecture.

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
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Corequisite: 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
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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
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Corequisite: 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
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Advisory: MUS 3B proficiency or equivalent.

Four hours lecture, four hours laboratory.

Continuation of late chromatic harmony and 20th Century compositional practice and theory. Application to composition and music literature. Impressionism, atonality, set theory, twelve-tone technique, graphic notation, and minimalism.

MUS 3CL	THEORY LABORATORY IN EAR TRAINING & SIGHT SINGING	1 Unit
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Corequisite: 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
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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 7D	CONTEMPORARY MUSICAL STYLES: THE BEATLES IN THE CULTURE OF POPULAR MUSIC	4 Units	MUS 12BL	CLASS PIANO LABORATORY II	1 Unit
			Advisory: Pass/No Pass.		
			Three hours laboratory.		
			Supervised practice of piano repertoire and technical material assigned in MUS 12B.		
Four hours lecture, two hours laboratory.					
Continuation of jazz, popular, and rock music with a focus on the Beatles. Includes prominent albums and songs associated with the band's evolution and stature, and their synthesis of a wide variety of popular and nonpopular musical styles. Examines the influences of pop music on the Beatles' early style as well as the group's own influence on music and pop culture in general. A variety of media consisting of videos, recordings, lecture, and live performance will be used.					
MUS 7E	HISTORY OF THE BLUES	4 Units	MUS 12C	ADVANCED CLASS PIANO	2 Units
			Advisory: MUS 12B or equivalent skills and concurrent enrollment in MUS 12CL recommended.		
			May be taken six times for credit.		
			Two hours lecture, one hour laboratory.		
			Continuation of MUS 12B with greater emphasis on building a repertoire, varied styles of performance, and ensemble playing.		
Four hours lecture, one hour laboratory.					
Examination of the basic song form of African American origin that is marked by flattened "blue" notes, takes the form of a 12 bar chorus and is made up of a three line stanza with the second line repeating the first. The course will cover the development of the blues throughout the 20th century. This is a listening based course examining geographical regions, musical and social influences and styles within the blues form. Emphasis will be on the creation of the 12 bar blues, its evolution into jazz, rock and roll, and its impact on social issues.					
MUS 8	MUSIC OF MULTICULTURAL AMERICA	4 Units	MUS 12CL	CLASS PIANO LABORATORY III	1 Unit
			Advisory: Pass/No Pass.		
			Three hours laboratory.		
			Supervised practice of piano repertoire and technical material assigned in MUS 12C.		
Four hours lecture, two hours laboratory.					
A comparative and integrative study of the multicultural musical styles of the United States. Includes the musics of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, from their historical roots to the present. Includes a wide variety of musical styles such as Folk, Spirituals, Gospel, Soul, Blues, Jazz, Rap, Cajun, Zydeco, Salsa and Tejano. Analysis of musical traditions from a technical and a cultural perspective; and sequential development of listening and descriptive skills through different media such as films, recordings and computer-assisted instruction.					
MUS 10	MUSIC FUNDAMENTALS	4 Units	MUS 12D	PIANO REPERTOIRE	2 Units
			Prerequisite: MUS 12C or equivalent.		
			Advisory: Concurrent enrollment in MUS 12DL is recommended.		
			May be taken six times for credit.		
			Two hours lecture, one hour laboratory.		
Four 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.		
A study of the basic elements of music (pitch, rhythm, harmony, style and form). A variety of classroom and laboratory activities will be used to develop a basic understanding of these areas and develop pitch and rhythm skills. Classroom pianos, records, tapes, compact discs and videotapes will be used. Activities will include the singing of simple songs and music lines utilizing solfeggio, numbers and note name techniques.					
MUS 10C	MUSIC FUNDAMENTALS THROUGH THE GUITAR	4 Units	MUS 12DL	PIANO REPERTOIRE LABORATORY	1 Unit
			Advisory: Pass/No Pass.		
			Three hours laboratory.		
			Supervised practice of piano repertoire and technical material assigned in MUS 12D.		
Prerequisite: elementary guitar skills.					
Advisory: MUS 14.					
Four lecture hours, two hours laboratory.					
Introduction to music theory using the guitar as an instrument instead of the piano. Introduction to notation, notes on the guitar, intervals, major and minor scales, chords, and basic principles of chord voicing as applied to the guitar. Not designed as a performance class but intended for music students whose primary instrument is the guitar.					
MUS 12A	BEGINNING CLASS PIANO	2 Units	MUS 12E	PIANO MASTER CLASS	2 Units
			Advisory: MUS 12C or equivalent skills.		
			May be taken six times for credit.		
			Two hours lecture, one hour laboratory.		
May be taken six times for credit.			The study and performance of selected piano literature from the 18th and 20th centuries. Emphasis will be on performance, interpretation, practice techniques, and expansion of repertoire.		
Two hours lecture, one hour laboratory.					
Group instruction in piano for those with no previous training. Emphasis is on finger technique, note reading, elementary chording, and performance of simple piano literature. For music majors as well as the general student.					
MUS 12AL	CLASS PIANO LABORATORY I	1 Unit	MUS 12F	KEYBOARD MUSICIANSHIP	1 Unit
			May be taken two times for credit.		
Advisory: Pass/No Pass.			Two hours lecture-laboratory, one hour laboratory.		
Three hours laboratory.			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.		
Supervised practice of piano repertoire and technical material assigned in MUS 12A.					
MUS 12B	INTERMEDIATE CLASS PIANO	2 Units	MUS 13A	CLASS VOICE I	1 Unit
			Advisory: MUS 12A and 13AL taken concurrently is recommended.		
			Two hours lecture-laboratory, one hour laboratory.		
Advisory: MUS 12A or equivalent skills; concurrent enrollment in MUS 12BL recommended.			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.		
May be taken six times for credit.					
Two hours lecture, one hour laboratory.					
Continuation of MUS 12A with increased emphasis on good tone production, independence of hands, development of eye-hand coordination, simple harmonization and transposition, and building repertoire.			MUS 13AL	CLASS VOICE LABORATORY	1 Unit
			Advisory: Pass/No Pass.		
			Three hours laboratory.		
			Supervised practice of vocal repertoire and technical material assigned in MUS 13A.		
MUS 13B	CLASS VOICE II	1 Unit	MUS 13B	CLASS VOICE II	1 Unit
			Prerequisite: MUS 13A.		
			Corequisite: Concurrent enrollment in MUS 13BL.		
			Two hours lecture-laboratory, one hour laboratory.		
			Continuation of MUS 13A with additional emphasis on the development of the voice as a solo instrument.		
Three hours laboratory.			MUS 13BL	CLASS VOICE LABORATORY	1 Unit
			Advisory: Pass/No Pass.		
			Three hours laboratory.		
			Supervised practice of vocal repertoire and technical material assigned in MUS 13B.		

MUS 13C CLASS VOICE III	1 Unit	MUS 15AL FOLK GUITAR LABORATORY	1 Unit
Prerequisite: MUS 13A and 13B.		Corequisite: MUS 15A.	
Corequisite: MUS 13CL.		May be taken six times for credit.	
Two hours lecture-laboratory, one hour laboratory.		Two hours laboratory, one hour supervised practice.	
Continuation of MUS 13A and 13B, with additional emphasis on musical phrasing, artistic interpretation, and foreign language usage.		Supervised practice in performance methods and techniques in the manner of playing folk guitar.	
MUS 13CL CLASS VOICE LABORATORY	1 Unit	MUS 15B INTERMEDIATE FOLK GUITAR	2 Units
Advisory: Pass/No Pass.		Prerequisite: MUS 15A or equivalent.	
Three hours laboratory.		May be taken six times for credit.	
Supervised practice of vocal repertoire and technical material assigned in MUS 13C.		Two hours lecture, one hour laboratory.	
MUS 14A BEGINNING CLASSICAL GUITAR	2 Units	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.	
Advisory: Concurrent enrollment in MUS 14AL recommended.			
May be taken six times for credit.			
Two hours lecture, one hour laboratory.			
A guitar fundamentals course that places emphasis on reading standard notation in the first position. Techniques such as rest stroke, free stroke, and correct left hand position are covered. Fundamental exercises and pieces will be played by the student in class as the instructor provides accompaniment. Includes an overview of the literature and the major performers of the classical guitar. No public performances are required.			
MUS 14AL CLASSICAL GUITAR LABORATORY	1 Unit	MUS 15BL FOLK GUITAR LABORATORY	1 Unit
Corequisite: MUS 14A.		Corequisite: MUS 15B.	
May be taken six times for credit.		May be taken six times for credit.	
Two hours laboratory, one hour supervised practice.		Two hours laboratory, one hour supervised practice.	
Supervised practice in performance methods and techniques in the manner of playing classical guitar.		Supervised practice in performance methods and techniques in the manner of playing folk guitar.	
MUS 14B INTERMEDIATE CLASSICAL GUITAR	2 Units	MUS 15C ADVANCED FOLK GUITAR	2 Units
Advisory: MUS 14A and concurrent enrollment in MUS 14BL recommended.		Prerequisite: MUS 15A and 15B or equivalent.	
May be taken six times for credit.		May be taken six times for credit.	
Two hours lecture, one hour laboratory.		Two hours lecture, one hour laboratory.	
Continuation of MUS 14A. Covers more advanced techniques for the right and left hands. Includes reading standard notation up to the 5th position. Increased emphasis is placed on solo guitar literature in addition to ensemble literature. No public performances are required.		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 14BL CLASSICAL GUITAR LABORATORY	1 Unit	MUS 15CL FOLK GUITAR LABORATORY	1 Unit
Corequisite: MUS 14B.		Corequisite: MUS 15C.	
May be taken six times for credit.		May be taken six times for credit.	
Two hours laboratory, one hour supervised practice.		Two hours laboratory, one hour supervised practice.	
Supervised practice in performance methods and techniques in the manner of playing classical guitar.		Supervised practice in performance methods and techniques in the manner of playing folk guitar.	
MUS 14C ADVANCED CLASSICAL GUITAR	1 Unit	MUS 27 SYMPHONY & CONCERTO	4 Units
Advisory: MUS 14B and concurrent enrollment in MUS 14CL recommended.		Advisory: MUS 1.	
May be taken six times for credit.		Four hours lecture.	
Two hours lecture, one hour laboratory.		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.	
Continuation of MUS 14B. Covers more advanced techniques for the right and left hands. Includes reading standard notation up to the 9th position. Includes more complex solo ensemble literature. Additional class time is spent with lectures, demonstrations and performances. No public performances are required.			
MUS 14CL CLASSICAL GUITAR LABORATORY	1 Unit	MUS 28 OPERA SURVEY	4 Units
Corequisite: MUS 14C.		Advisory: MUS 1.	
May be taken six times for credit.		Four hours lecture.	
Two hours laboratory, one hour supervised practice.		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.	
Supervised practice in performance methods and techniques in the manner of playing classical guitar.			
MUS 15A BEGINNING FOLK GUITAR	2 Units	MUS 34 HONORS INSTITUTE SEMINAR IN MUSIC	1 Unit
May be taken six times for credit.		Prerequisite: Membership in the Honors Institute.	
Two hours lecture, one hour laboratory.		One hour lecture.	
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 seminar in directed readings, discussions and projects in music.	
MUS 35 SPECIAL PROJECTS IN MUSIC (HONORS)	2 Units	MUS 43A KEYBOARD MUSICIANSHP	1 Unit
May be taken six times for credit.		May be taken three times for credit.	
Six hours laboratory.		Two hours lecture-laboratory, one hour laboratory.	
A laboratory course involving an approved student project in music such as theory, history and literature, and applied music. Performances or music productions for community musical events may be planned and executed in this class.		Keyboard theory and technique for students for whom piano is a secondary instrument. Sight-reading, keyboard harmony, score reading, transposition, improvisation, and lead-sheet reading.	

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.

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MUS 43B KEYBOARD MUSICIANSHIP	1 Unit	MUS 58A SONGWRITING: LYRIC ANALYSIS	4 Units
Advisory: MUS 43A.		Prerequisite: MUS 10 or equivalent.	
May be taken three times for credit.		Four hours lecture, one hour laboratory.	
Two hours lecture-laboratory, one hour laboratory.		The study of poetic devices used in commercial lyrics. Examination of rhythms and styles in contemporary song forms. Emphasis on the creation of powerful titles and first lines in songwriting.	
MUS 46A STRING INSTRUMENTS	1 Unit	MUS 58B SONGWRITING: MELODIC ANALYSIS	4 Units
May be taken three times for credit if different instrument is selected.		Prerequisite: MUS 58A or equivalent.	
Two hours lecture-laboratory, one hour laboratory.		Four hours lecture, one hour laboratory.	
Beginning performance methods and techniques on orchestral stringed instruments.		A study of the smallest melodic idea in music, the motive. Analysis of rhythm and pitch as the basis for melody writing. Emphasis on compositional techniques that define how to create and elongate motives.	
MUS 46B WOODWIND INSTRUMENTS	1 Unit	MUS 58C SONGWRITING: MUSIC & BUSINESS	3 Units
May be taken three times for credit if different instrument is selected.		Prerequisite: MUS 58A or 58B.	
Two hours lecture-laboratory, one hour laboratory.		Two hours lecture, three hours laboratory.	
Beginning performance methods and techniques on the basic band instruments (flute, oboe, clarinet, bassoon and saxophone).		Techniques of song marketing. Preparation for copyright registration. Published advice from professional songwriters.	
MUS 46C BRASS INSTRUMENTS	1 Unit	MUS 59 CONTEMPORARY FORMS & IDEAS	4 Units
May be taken three times for credit if different instrument is selected.		Two hours lecture, three hours lecture-laboratory, three hours laboratory.	
Two hours lecture-laboratory, one hour laboratory.		History and analysis of contemporary approaches to music composition from 1945 to the present. Included are groundbreaking and influential works that challenge the traditional techniques of harmony, melody, and rhythm to create new organic forms and new ways of hearing music.	
MUS 46D PERCUSSION INSTRUMENTS	1 Unit	MUS 60 AUDIO RECORDING TECHNIQUES	4 Units
May be taken three times for credit.		Two hours lecture, three hours lecture-laboratory, three hours laboratory.	
Two hours lecture-laboratory, one hour laboratory.		Design, set up and operation of an audio/video recording studio in a small environment. Space considerations, electrical requirements and acoustic treatment options. Computer requirements including processor speed, memory requirements, data storage devices and monitor selection/placement. MIDI keyboard types and compatibility, mixer selection and setup, cable selection and care, microphone design, and USB/firewire interface options. Software programs and compatibility issues. How to produce recordings from start to finish in a home studio.	
MUS 50A MUSIC BUSINESS	4 Units	MUS 62A JAZZ & POPULAR SOLO VOICE I	1 Unit
Four hours lecture, two hours laboratory.		Prerequisite: Enrollment subject to standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to instructor.	
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.		Advisory: MUS 13C or equivalent; concurrent enrollment in MUS 62AL recommended.	
Two hours lecture, one hour laboratory.		Two hours lecture-laboratory, one hour laboratory.	
Beginning performance methods and techniques on percussion instruments.		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 50B ENTERTAINMENT LAW & NEW MEDIA	4 Units	MUS 62AL JAZZ & POP SOLO VOICE LABORATORY	1 Unit
Two hours lecture, three hours lecture-laboratory, three hours laboratory.		Advisory: Pass/No Pass.	
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.		Corequisite: MUS 62A.	
Two hours lecture, three hours lecture-laboratory, three hours laboratory.		Three hours laboratory.	
Introduction to the music software Sibelius® for composing. Learn the basics of professional music notation. Test and develop ideas for songwriting, composing, arranging and orchestrating. This course prepares for the use of Sibelius® with Pro Tools® and Reason® for sound design projects. Write songs and compositions to develop notation skills.		Supervised practice of vocal repertoire and technical material assigned in MUS 62A, B and C.	
MUS 56A SONGWRITING & COMPOSING WITH DIGITAL NOTATION	4 Units	MUS 62B JAZZ & POPULAR SOLO VOICE II	1 Unit
Two hours lecture, three hours lecture-laboratory, three hours laboratory.		Prerequisite: MUS 62A.	
Introduction to the music software Sibelius® for composing. Learn the basics of professional music notation. Test and develop ideas for songwriting, composing, arranging and orchestrating. This course prepares for the use of Sibelius® with Pro Tools® and Reason® for sound design projects. Write songs and compositions to develop notation skills.		Advisory: Concurrent enrollment in MUS 62BL recommended.	
Two hours lecture-laboratory, one hour laboratory.		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 56B ADVANCED SONGWRITING & COMPOSING WITH DIGITAL NOTATION	4 Units	MUS 62BL JAZZ & POP SOLO VOICE LABORATORY	1 Unit
Advisory: Students must demonstrate musicianship basics through a short exam, or enroll concurrently in MUS 3A or 10.		Advisory: Pass/No Pass.	
Two hours lecture, three hours lecture-laboratory, three hours laboratory.		Corequisite: MUS 62B.	
Develop expertise with Sibelius® for professional music notation, and for integrating with Pro Tools®, Reason®, and Ableton Live®. Notation skills are used for composing beats, arrangements, film scores, sound design, and media for live performance. Test and develop ideas in Sibelius® for skills in all genres of music. Integrate Sibelius® with Pro Tools®, Reason®, and Ableton Live®, converting notation files to MIDI. Write songs and compositions to develop multimedia applications.		Three hours laboratory.	
Two hours lecture-laboratory, one hour 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, three hours lecture-laboratory, three hours laboratory.		
May be taken three times for credit.			Creating and editing digital audio with Pro Tools® and Reason®. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Introduction to using Reason® both as a stand-alone digital audio workstation as a ReWire application within the Pro Tools® production environment.		
Two hours lecture-laboratory, one hour laboratory.					
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	ELECTRONIC MUSIC & MEDIA: COMPOSING WITH PRO TOOLS®, REASON®, & LIVE®	4 Units
Advisory: Pass/No Pass.			Prerequisite: MUS 66A or 66B.		
Corequisite: MUS 62C.			Two hours lecture, three hours lecture-laboratory, three hours laboratory.		
Three hours laboratory.			Creating and editing digital audio with Pro Tools®, Reason®, and Ableton Live®. Using Live® as a stand-alone digital audio workstation and performance instrument.		
Supervised practice of vocal repertoire and technical material assigned in MUS 62A, B and C.			Pro Tools® RTAS and Audio Suite plug-in effects and how they are used in the production of complete musical arrangements in digital music. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music.		
MUS 64A	JAZZ & SWING	4 Units	MUS 68	CAREERS IN NEW MEDIA	1 Unit
Two hours lecture, three hours lecture-laboratory, three hours laboratory.			Advisory: Not open to students with credit in ART 71, VART 53, PHOT 67.		
History and analysis of jazz styles and trends from the development of Ragtime to 1969. An introduction to the instruments, performers, composers, compositions and recordings that defined jazz before the introduction of rock as the primary commercial music style in the US. Presentation of jazz and swing recordings, videos and print resources. Major artists include Louis Armstrong, Duke Ellington, Benny Goodman, Glenn Miller, Lionel Hampton, Count Basie, Charlie Parker, Dizzy Gillespie, Miles Davis, Sonny Rollins, Charles Mingus and John Coltrane. Style periods include Early ('Dixieland'), Big Band, Jump, Swing, Bebop, Hard Bop, Cool, Modal, and Avant-Garde Jazz.			Two hours lecture.		
MUS 64B	FUNK, FUSION & HIP HOP	4 Units	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.		
Two hours lecture, three hours lecture-laboratory, three hours laboratory.					
History and analysis of funk, fusion and Hip Hop styles from 1969 to the present. An introduction to the instruments, performers, composers, compositions and recordings that defined/fuse funk, fusion & Hip Hop from the collapse of traditional jazz and the introduction of funk and jazz fusion to the present. Presentation of recordings, videos and print resources. Major artists include Miles Davis, Herbie Hancock, James Brown, Sly Stone, Weather Report, Wayne Shorter, George Clinton and P-Funk, Jaco Pastorius, Pat Metheny, Grandmaster Flash, Africa Bambaataa, Chuck D. and Dr. Dre. Style periods include Early Jazz Fusion, Early Funk, East Bay Funk, Groove and Smooth Jazz, Modern Fusion, Early Hip Hop and Commercial Rap.					
MUS 64C	SALSA & LATIN JAZZ	4 Units	MUS 80	RECORDING ARTS I: SOUND REINFORCEMENT	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 Afro-Caribbean musical styles that have developed into modern Salsa and Latin Jazz. An introduction to the instruments, performers, composers, compositions and recordings that defined Salsa and Latin Jazz. Presentation of recordings, videos and print resources. Major artists include Tito Puente, Machito, Perez Prado, Eddie Palmieri, Giovanni Hidalgo, Israel 'Cachao' Lopez, Mario Bauza, Frankie Ruiz, Celia Cruz, Luis Enrique, Paquito D'Rivera, Poncho Sanchez, Chucho Valdez, and others. Styles include Danzon, Son, Mambo, Rhumba, Guaguanco, Guaracha, Son Montuno, Cha Cha, Guajira, Cumbia, Plena, Bomba, Merengue and others.			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 65	CAREERS IN MUSIC	3 Units	MUS 81A	RECORDING ARTS II: DIGITAL AUDIO PRODUCTION	4 Units
Three hours lecture, two hours laboratory.			Two hours lecture, three hours lecture-laboratory, three hours laboratory.		
An overview of the music industry and its career opportunities. Areas of study include studio management and engineering, music merchandising on the local and national levels, artist promotion, concert promotion, concert management, music contracting, graphic support in music recording, the role of the agent/personal manager, technical support in electronic music, technical support in traditional music, video and film production and editing, instrument maintenance and repair, and music retailing. Guest lectures from local industry professionals, field trips to studios, production facilities and retail facilities.			Introduction to multitrack recording and production using Digidesign's Pro Tools®. Contemporary production techniques such as beat (loop) construction and editing, time stretching, 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 66A	INTRODUCTION TO ELECTRONIC MUSIC & MEDIA: COMPOSING WITH PROTOOLS	4 Units	MUS 81B	RECORDING ART II: AUDIO FOR VIDEO	4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.			Two hours lecture, three hours lecture-laboratory, three hours laboratory.		
Introduction to creating music with computers, keyboards and audio samples (beats) using Pro Tools®. Basic principles and use of MIDI sequencing/audio software. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Basic music production using Pro Tools®. All styles are included, and prior musical training is not required.			Creating and editing soundtracks and audio for digital video, music video and film. Recording live sound, and integrating sound effects from a digital library. Dialogue editing and re-recording (looping), and musical soundtrack creation. Synchronization of audio to video using timecode, aesthetic quality of sound and music as it relates to video content, and the production of video/audio projects using Final Cut Pro® and Pro Tools®.		
MUS 82A	RECORDING ARTS III: MIXING & MASTERING	4 Units	MUS 82A	RECORDING ARTS III: MIXING & MASTERING	4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.			Two hours lecture, three hours lecture-laboratory, three hours laboratory.		
Recording, mixing and mastering multitrack recordings using Digidesign's Pro Tools®. Application of RTAS, TDM and Audio Suite DSP effects to the original multitrack recordings and stereo master. Creation of master soundfiles and basic Audio CD burning. Comparison and contrast of various styles of mixing for different mediums and formats. Production of MPEG (mp3) audio files as well as compression techniques and formats for internet distribution.					

MUS 82B RECORDING ARTS III: PRO TOOLS 101 4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.
 Study and application of Digidesign-approved curriculum leading to Pro Tools 100 level certification from Digidesign. Pro Tools 101 focuses on the foundation skills needed to learn and function within the Pro Tools environment at a basic level. The aim of this course is to familiarize students with Pro Tools in an exclusive recording and editing environment, and prepare them for enrollment in Pro Tools 200 and 300 level courses.

MUS 85A MUSIC & MEDIA: EDISON TO HENDRIX 4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.
 Introductory study of the history and development of popular music from the inception of recording through the first televised performances of the Beatles in the U.S. Development of media delivery including recording, radio, television, and how those delivery systems changed both the content of music, and its use by the public. The class will investigate the influence of media on the development of styles such as jazz, swing, country, rockabilly and rock and roll, including societal changes brought about by media delivery of music and how it became associated with graphic imagery such as television and cinema.

MUS 85B MUSIC & MEDIA: HENDRIX TO HIP HOP 4 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.
 Introductory study of the history and development of popular music from 1964 through the present in the U.S. The class will examine the development of media delivery systems after The Beatles' first appearances on television through the growth of rock and alternative styles. Styles and artist to be studied are such as punk, ska, the rebirth of country music and the rise of hip hop culture, examining artists such as Jimi Hendrix, Pink Floyd, David Bowie, Frank Zappa, Prince, The Police, Chuck D. and others. The class will study the development and growth of music videos as an art form and the delivery/promotional systems developed for them such as MTV.

MUS 86 INTRODUCTION TO DIGITAL SOUND, VIDEO & ANIMATION 4 Units
Advisory: Not open to students with credit in ART 88, DRAM 86, VART 86, GID 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.

MUS 90 MUSIC FOR MINORS TRAINING 3 Units
Non-degree applicable credit course.
Advisory: Instructor approval based on demonstrated ability to maintain rhythm and pitch, and some recent child-related leadership experience.
May be taken two times for credit.
Six hours lecture-laboratory.
 Training of volunteers (docents) to teach a comprehensive music program for elementary age classes.

MUS 150 MUSIC LABORATORY .5 Unit
MUS 150X 1 Unit
MUS 150Y 1.5 Units
MUS 150Z 2 Units

Any combination of MUS 150, 150X, 150Y & 150Z may be taken a maximum of six times for credit.

One and one-half hours laboratory for each half unit of credit.
 Supervised activities in musical skills and materials related to music courses in which students are currently enrolled.

MUS 190 DIRECTED STUDY .5 Unit
MUS 190X 1 Unit
MUS 190Y 1.5 Units
MUS 190Z 2 Units

Advisory: Pass/No Pass.
 Any combination of MUS 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.
One and one-half hours laboratory for each half unit 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 & Communication Division (650) 949-7141
www.foothill.edu/fa/

MUSP 19 CONCERT CHOIR 2 Units
Prerequisite: Enrollment subject to standardized audition administered by college staff to determine ability or technical proficiency of the student.
May be taken six times for credit.

Three hours lecture-laboratory, two hours laboratory.
 In-depth study of choral techniques and performance through the rehearsal of a broad range of choral music. Concerts on and off campus will emphasize a high level of performance. Attendance at all performances is required.

MUSP 20 REPERTORY CHORUS 2 Units
Prerequisite: Enrollment subject to standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director.
May be taken six times for credit.

Three hours lecture-laboratory, two hours laboratory.
 Study, rehearsal and performance of choral repertoire drawn from a broad historical and stylistic range. Includes sacred and secular material, with focus on developing a varied concert program. Performances both on and off campus. Attendance at all performances required.

MUSP 21 COLLEGE CHORALE 2 Units
May be taken six times for credit.

Three hours lecture-laboratory, two hours laboratory.
 Sing in harmony a variety of choral music, including spirituals, folk songs, pop hits, standard octavos and Broadway medleys. This course is open without regard for previous musical background. Attendance at all scheduled performances is required.

MUSP 22 JAZZ SINGERS: INTRODUCTION TO VOCAL JAZZ ENSEMBLE 2 Units

Prerequisite: Enrollment subject to a standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director.
May be taken six times for credit.

Three hours lecture-laboratory, two hours laboratory.
 Study, rehearsal and performance of contemporary vocal ensemble repertoire drawn from the popular and jazz 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.
May be taken six times for credit.

Three hours lecture-laboratory, two hours laboratory.
 Study, rehearsal and performance of contemporary vocal ensemble repertoire drawn from the popular and jazz 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

Any combination of MUSP 24, 24X, 24Y & 24Z may be taken for a maximum of 48 units.

Three hours lecture-laboratory, two hours laboratory.
 The study, rehearsal, and performance of choral repertoire drawn from African-American music of the church. Concert performances both on and off campus. Attendance at all performances required.

MUSP 25 AEOLIAN CHORALE 2 Units

Prerequisite: Enrollment subject to an audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure.
May be taken six times for credit.

Three hours lecture-laboratory, two hours laboratory.
 The intermediate study, rehearsal and performance of choral literature for women's voices. Concerts are given both on and off campus. Attendance at all concerts is required.

MUSP 26	ADVANCED WOMEN'S CHORUS	2 Units	MUSP 31	CONCERT BAND	2 Units			
MUSP 26X		4 Units	Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. May be taken six times for credit.					
MUSP 26Y		6 Units	Three hours lecture-laboratory, two hours laboratory.					
MUSP 26Z		8 Units	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.					
Prerequisite: Enrollment subject to audition. Designed as an advanced performance course for singers interested in aspiring to the highest levels of musical performance. Prior singing experience or an instrumental background is required. Fundamental sight reading.								
Any combination of MUSP 26, 26X, 26Y & 26Z may be taken for a maximum of 48 units.								
Three hours lecture-laboratory, two hours laboratory for two units of credit.								
Study, rehearsal, and performance of choral repertoire specifically written for women's voices. Includes musical styles from the Medieval Period to Contemporary Classical music. Concert performances both on and off campus. Attendance at all performances required.								
MUSP 27	RENAISSANCE VOCAL ENSEMBLE	2 Units	MUSP 32	SYMPHONIC WIND ENSEMBLE	2 Units			
MUSP 27X		4 Units	MUSP 32X		4 Units			
MUSP 27Y		6 Units	MUSP 32Y		6 Units			
MUSP 27Z		8 Units	MUSP 32Z		8 Units			
Prerequisite: Enrollment subject to a standard audition administered by the college staff which demonstrates the student's potential for reaching a high level of performance proficiency.								
Any combination of MUSP 27, 27X, 27Y & 27Z may be taken for a maximum of 48 units.								
Three hours lecture-laboratory, two hours laboratory for two units of credit.								
Training for the performance of choral music primarily from the Renaissance and Baroque periods. Emphasis will be on 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	MUSP 33	EVENING JAZZ ENSEMBLE	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.			MUSP 33X		4 Units			
May be taken six times for credit.			MUSP 33Y		6 Units			
Three hours lecture-laboratory, two hours laboratory.			MUSP 33Z		8 Units			
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.			Prerequisite: Enrollment subject to audition.					
MUSP 29	MADRIGAL SINGERS	2 Units	Any combination of MUSP 33, 33X, 33Y & 33Z may be taken for a maximum of 48 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 for two units of credit.					
May be taken six times for credit.			Study and preparation of advanced level materials suitable for the large jazz ensemble. Selected published music of the 1980's to current will be studied and performed. Attendance at all scheduled performances is mandatory.					
Three hours lecture-laboratory, two hours laboratory.			MUSP 34					
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.			REPERTORY JAZZ ENSEMBLE	2 Units	4 Units			
MUSP 30	COLLEGE BAND	2 Units	MUSP 34X		6 Units			
MUSP 30X		4 Units	MUSP 34Y		8 Units			
MUSP 30Y		6 Units	Prerequisite: MUSP 33 or equivalent.					
MUSP 30Z		8 Units	Any combination of MUSP 34, 34X, 34Y & 34Z may be taken for a maximum of 48 units.					
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure.			Three hours lecture-laboratory, two hours laboratory for two units of credit.					
Any combination of MUSP 30, 30X, 30Y & 30Z may be taken for a maximum of 48 units.			Study and preparation of beginning-level materials suitable for the large jazz ensemble. This course is intended for the less experienced player in this idiom. The basic jazz techniques related to big band performance will be stressed. Attendance at all scheduled performances is mandatory.					
Three hours lecture-laboratory, two hours laboratory for two units of credit.			MUSP 35					
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.			STAGE BAND	2 Units	4 Units			
MUSP 30Y		6 Units	MUSP 35X		6 Units			
MUSP 30Z		8 Units	MUSP 35Y		8 Units			
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure.			Prerequisite: Enrollment subject to audition.					
Any combination of MUSP 30, 30X, 30Y & 30Z may be taken for a maximum of 48 units.			Any combination of MUSP 35, 35X, 35Y & 35Z may be taken for a maximum of 48 units.					
Three hours lecture-laboratory, two hours laboratory for two units of credit.			Three hours lecture-laboratory, two hours laboratory for two units of credit.					
Study and preparation of professional level materials suitable for the large jazz ensemble. Attendance at all scheduled performances is mandatory.			Study and preparation of beginning-level materials suitable for the large jazz ensemble. This course is intended for the less experienced player in this idiom. The basic jazz techniques related to big band performance will be stressed. Attendance at all scheduled performances is mandatory.					
MUSP 36	JAZZ LABORATORY BAND	2 Units	MUSP 36X		4 Units			
MUSP 36Y		6 Units	MUSP 36Y		8 Units			
MUSP 36Z		8 Units	Prerequisite: Enrollment subject to audition.					
Advisory: MUS 10 or equivalent experience.			Advisory: MUS 10 or equivalent experience.					
Any combination of MUSP 36, 36X, 36Y & 36Z may be taken for a maximum of 48 units.			Any combination of MUSP 36, 36X, 36Y & 36Z may be taken for a maximum of 48 units.					
Three hours lecture-laboratory, two hours laboratory for two units of credit.			Three hours lecture-laboratory, two hours laboratory for two units of credit.					
Study and preparation of intermediate level materials suitable for the large jazz ensemble. Attendance at all scheduled performances is mandatory.			Study and preparation of intermediate level materials suitable for the large jazz ensemble. Attendance at all scheduled performances is mandatory.					

MUSP 37	STRING ORCHESTRA	2 Units	MUSP 43	CONTEMPORARY JAZZ ENSEMBLE	2 Units
MUSP 37X		4 Units	Prerequisite: Enrollment subject to audition.		
MUSP 37Y		6 Units	May be taken six times for credit.		
MUSP 37Z		8 Units	Three hours lecture-laboratory, two hours rehearsal and performance.		
Prerequisite: Enrollment subject to audition.					
Any combination of MUSP 37, 37X, 37Y & 37Z may be taken for a maximum of 48 units.					
Three hours lecture-laboratory, two hours laboratory for two units of credit.					
Reading, study and performance of Chamber and orchestral literature for strings. Attendance at all scheduled performance is required.					
MUSP 38	CHAMBER ORCHESTRA	2 Units	MUSP 44	RHYTHM & BLUES ENSEMBLE	1 Unit
MUSP 38X		4 Units	Advisory: MUS 10 or equivalent.		
MUSP 38Y		6 Units	May be taken six times for credit.		
MUSP 38Z		8 Units	Three hours laboratory.		
Prerequisite: Enrollment subject to audition.					
Any combination of MUSP 38, 38X, 38Y & 38Z may be taken for a maximum of 48 units.					
Three hours lecture-laboratory, two hours laboratory for two units of credit.					
Study and performance of Chamber orchestral literature from the Renaissance to the present. Attendance at all scheduled performances is required.					
MUSP 39	COLLEGE ORCHESTRA	2 Units	MUSP 45	CHAMBER MUSIC	2 Units
MUSP 39X		4 Units	May be taken six times for credit.		
MUSP 39Y		6 Units	Three hours lecture-laboratory, two hours supervised practice.		
MUSP 39Z		8 Units	Reading, preparation and performance of chamber music literature for various instrumental combinations. Attendance at all performances is required.		
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure.					
Any combination of MUSP 39, 39X, 39Y & 39Z may be taken for a maximum of 48 units.					
Three hours lecture-laboratory, two hours laboratory for two units of credit.					
Reading, study and performance of the orchestral literature of various styles and periods best suited for the college level instrumentalist. Attendance at all scheduled performances is required.					
MUSP 40	SYMPHONY ORCHESTRA	2 Units	MUSP 45V	CHAMBER ENSEMBLE: STRINGS	1 Unit
MUSP 40X		4 Units	Prerequisite: Enrollment subject to audition.		
MUSP 40Y		6 Units	May be taken six times for credit.		
MUSP 40Z		8 Units	Three hours laboratory, one hour supervised practice.		
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.					
Any combination of MUSP 40, 40X, 40Y & 40Z may be taken for a maximum of 48 units.					
Three hours lecture-laboratory, two hours laboratory for two units of credit.					
Study, rehearsal and performance of 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.					
MUSP 41A-F	APPLIED MUSIC & MULTIMEDIA TRAINING	4 Units	MUSP 49	MUSIC REHEARSAL & PERFORMANCE	2 Units
Two hours lecture, three hours lecture-laboratory, three hours laboratory.			MUSP 49X		4 Units
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.			MUSP 49Y		6 Units
			MUSP 49Z		8 Units
Advisory: Pass/No Pass.					
Any combination of MUSP 49, 49X, 49Y & 49Z may be taken for a maximum of 48 units.					
Eight hours lecture-laboratory, twelve hours laboratory.					
Supervised participation in public performance in a music department ensemble. Enrollment is for the duration of one particular performance or concert tour.					
MUSP 61A-F	APPLIED JAZZ TRAINING	2 Units	MUSP 61A-F	APPLIED JAZZ TRAINING	2 Units
Prerequisite: Standardized placement performance examination by the college music staff.					
May be taken six times for credit.					
One-half hour lecture, one and one-half hours lecture-laboratory, five hours laboratory.					
One-half hour per week lecture-recital instruction by the college staff, and one lesson per week with a private instructor by the student. A minimum of 10 one-half hour lessons per quarter must be verified.					
MUSP 191	CHORAL REPERTOIRE PRACTICUM	2 Units	MUSP 191	CHORAL REPERTOIRE PRACTICUM	2 Units
MUSP 191X			MUSP 191X		3 Units
MUSP 191Y			MUSP 191Y		4 Units
MUSP 191Z			MUSP 191Z		5.5 Units
Prerequisite: Enrollment subject to audition.					
Advisory: Pass/No Pass.					
Any combination of MUSP 191, 191X, 191Y & 191Z may be taken for a maximum of 33 units.					
Three hours lecture-laboratory, one and one-half hours laboratory for two units of credit.					
Study, rehearsal, and performance of choral repertoire. Designed as an advanced performance course for ensemble singers wishing to explore the vast choral repertoire more fully, including music from medieval to contemporary, and non-Western music. Concert performances both on and off campus. Attendance at all performances required.					

MUSP 193	INSTRUMENTAL REPERTOIRE PRACTICUM	2 Units
MUSP 193X		3 Units
MUSP 193Y		4 Units
MUSP 193Z		5.5 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

Any combination of MUSP 193, 193X, 193Y & 193Z may be taken for a maximum of 33 units.

Three hours lecture-laboratory, one and one-half hours laboratory for two units of credit.

Study, rehearsal, and performance of instrumental repertoire. Designed as an advanced performance course for players of string, wind, and percussion instruments wishing to explore the vast instrumental repertoire more fully, including music from renaissance to contemporary, and non-western music. Concert performances both on and off campus. Attendance at all performances required.

OCEANOGRAPHY

Physical Sciences, Mathematics & Engineering Division (650) 949-7259
www.foothill.edu/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 SEMINAR IN OCEANOGRAPHY	1 Unit
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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: Previous experience in oceanography.

Any combination of OCEN 36, 36X & 36Y may be taken for a maximum of six units.

Three hours laboratory for each unit of credit.

A seminar in directed reading and discussion in oceanography. An opportunity to do oceanographical research. An opportunity to assist in the planning, development and presentation of oceanography programs.

PERFORMING ARTS

Fine Arts & Communication Division (650) 949-7479
www.foothill.edu/fa/

P A 11	THEATRICAL REHEARSAL & PERFORMANCE	2 Units
P A 11X		.5 Unit
P A 11Y		6 Units
P A 11Z		8 Units

Advisory: Not open to students with credit in DRAM 49.

Any combination of P A 11, 11X, 11Y & 11Z may be taken for a maximum of 48 units.

Three hours lecture-laboratory, two hours laboratory.

Supervised participation in scheduled theatrical productions, as cast or crew. Enrollment in each course is for the duration of the production.

P A 21	MUSIC REHEARSAL & PERFORMANCE	2 Units
P A 21X		4 Units
P A 21Y		6 Units
P A 21Z		8 Units

Advisory: Pass/No Pass.

Any combination of P A 21, 21X, 21Y & 21Z may be taken for a maximum of 48 units.

Three hours lecture-laboratory, two hours laboratory for two units of credit. Supervised participation in public performance in a music department ensemble. Enrollment is for the duration of one particular performance or concert tour.

P A 111	PERFORMANCE PRACTICES IN THEATRE	2 Units
P A 111X		4 Units
P A 111Y		8 Units
P A 111Z		16 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

Any combination of P A 111, 111X, 111Y & 111Z may be taken for a maximum of 96 units.

Eight hours laboratory for two units of credit.

Study, rehearsal, and performance of theatre performance pieces. Designed as a performance course for actors and theatre technicians wishing to explore the vast theatre repertoire more fully and with other performance artists. Repertoire may include works from Greek to contemporary, non-musical and musical theatre, and non-western theatre. Performances both on and off campus. Attendance at all performances required.

P A 121	PERFORMANCE PRACTICES IN VOCAL MUSIC	2 Units
P A 121X		4 Units
P A 121Y		8 Units
P A 121Z		16 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

Any combination of P A 121, 121X, 121Y & 121Z may be taken for a maximum of 96 units.

Eight hours laboratory for two units of credit.

Study, rehearsal, and performance of vocal/choral repertoire. Designed as an advanced performance course for ensemble singers wishing to explore the vast choral repertoire more fully with other performance artists. Repertoire includes music from medieval to contemporary, and non-western music. Concert performances both on and off campus. Attendance at all performances required.

P A 131	PERFORMANCE PRACTICES IN INSTRUMENTAL MUSIC	2 Units
P A 131X		4 Units
P A 131Y		8 Units
P A 131Z		16 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

Any combination of P A 131, 131X, 131Y & 131Z may be taken for a maximum of 96 units.

Eight hours laboratory for two units of credit.

Study, rehearsal, and performance of instrumental performance pieces for varied ensembles. Designed as a performance course for players of string, wind, and percussion instruments wishing to explore the vast instrumental repertoire more fully with other performance artists, including music from renaissance to contemporary, and non-western music. Concert performances both on and off campus. Attendance at all performances required.

P A 141	PERFORMING ARTS COLLEGIUM	2 Units
P A 141X		4 Units
P A 141Y		8 Units
P A 141Z		16 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

Any combination of P A 141, 141X, 141Y & 141Z may be taken for a maximum of 96 units.

Eight hours laboratory for two units of credit.

An advanced laboratory course involving approved student performance, or performance support in music, theatre, or dance, including theatre technicians, and sound and video recording arts. Performances or productions for community musical, theatre or dance events may be planned and executed in this class. Includes required public performances. May be taken six times for credit.

P A 150	PERFORMING ARTS LABORATORY	.5 Unit
P A 150X		1 Unit
P A 150Y		2 Units
P A 150Z		3 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

Any combination of P A 150, 150X, 150Y & 150Z may be taken a maximum of six times for credit.

One and one-half hours laboratory for each half unit of credit.

Supervised activities in performing arts, related to skills and materials of other performing arts courses in which students are currently enrolled.

P A 161	DIRECTED STUDIES IN THE PERFORMING ARTS	.5 Unit
P A 161X		1 Unit
P A 161Y		2 Units
P A 161Z		3 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

Any combination of P A 161, 161X, 161Y & 161Z may be taken a maximum of six times for credit.

One and one-half hours laboratory for each half unit of credit.

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.

P T 56	PRINCIPLES & ANALYSIS OF FLEXIBILITY	4 Units
P T 56X		3 Units
P T 56Y		1 Unit

Three hours lecture, three hours laboratory.

Techniques and principles of stretching and flexibility. Includes anatomy and physiology of flexibility and the practical application of flexibility training in everyday life, fitness, and athletic competition.

PHARMACY TECHNICIAN

Biological & Health Sciences Division (650) 949-7249
www.foothill.edu/bio/programs/pharmtec/

PHT 50	ORIENTATION TO PHARMACY TECHNOLOGY	3 Units
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Prerequisite: Admission to Pharmacy Technology Program.

Three hours lecture.

An orientation to the role and working environment of the pharmacy technician, in both inpatient and outpatient settings. An introduction to the legal responsibilities and technical activities of the pharmacy technician.

PHT 51	BASIC PHARMACEUTICS	4 Units
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Prerequisite: Admission to the Pharmacy Technology Program.

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.

Two hours lecture, four hours laboratory.

A general study of the usual technician functions associated with an institutional drug distribution system. Practical experience in the manipulative and record-keeping functions of extemporaneous preparations in an inpatient pharmacy.

PHT 52B	ASEPTIC TECHNIQUE & IV PREPARATION	4 Units
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Prerequisite: PHT 52A.

Three hours lecture, five hours laboratory.

The compounding of sterile products according to the appropriate technique. An introduction to the concepts of sterility and incompatibility. The use of applicable quality assurance processes and performance of work in accordance with the laws, regulations, and standards which govern the preparation of sterile products, with special emphasis on the preparation of parenteral chemotherapy with strict adherence to all precautionary standards.

PHT 53	AMBULATORY PHARMACY PRACTICE	4 Units
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Prerequisite: Admission to the Pharmacy Technology Program.

Three hours lecture, three hours laboratory, one and one-half hours research. A review of the skills needed to operate effectively in an ambulatory setting, with emphasis on receiving and controlling inventory, processing prescriptions using computerized prescription processing, and medical insurance billing. Customer relations.

PHT 54A	DOSAGE CALCULATIONS A	3 Units
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Prerequisite: Admission to Pharmacy Technology Program.

Three hours lecture.

An introduction to the use of pharmaceutical measuring systems with emphasis on the metric system and intersystem conversions.

PHT 54B	DOSAGE CALCULATIONS B	3 Units
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Prerequisite: PHT 54A.

Three hours lecture.

Calculation of the correct oral and parenteral dosages of drugs using information from prescriptions or medications orders. Accurate determination of the correct amount of ingredients for the compounding of pharmaceutical products from a prescription or medications order.

PHT 55A	PHARMACOLOGY A	6 Units
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Prerequisite: PHT 50.

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.

PERSONAL TRAINER

Physical Education/Athletics Division (650) 949-7222
www.foothill.edu/programs/pft/

P T 51	BASIC NUTRITION FOR SPORTS & FITNESS	3 Units
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Three hours lecture

Practical applications of basic nutrition concepts and how food choices affect health and fitness. Includes computer utilization of personal dietary analysis and evaluation. Standard food guides and guidelines to select foods that would maximize individual health are utilized in this course.

P T 52	STRENGTH FITNESS	3 Units
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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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May be taken three times for credit.

Two hours lecture, three hours laboratory.

Internship program designed to provide personal fitness trainers with the practical hands-on skills and to gain valuable experience with the students at the Lifetime Fitness Center, a campus facility. Includes conducting assessments of fitness, prescribing appropriate physical exercises, and safely instructing students in the step-by-step procedures of how to execute strength, cardiovascular, and flexibility exercises. In addition, the development of business administration and management aspects for personal trainers.

P T 54	TECHNIQUES OF FITNESS ASSESSMENT	3 Units
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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.

PHT 55B	PHARMACOLOGY B	6 Units
Prerequisite: PHT 55A.		
Six hours lecture.		
A study of the basic anatomy, physiology, and pharmacology of body tissues and membranes, the integumentary system, the skeletal system, the muscular system, the cardiovascular system, the blood, the lymphatic system and immunization, the respiratory system. A review of body temperature. A discussion on metabolism with emphasis on nutrition.		
PHT 56A	DISPENSING & COMPOUNDING A	4 Units
Prerequisite: PHT 50.		
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
Prerequisite: PHT 56A.		
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
Prerequisite: Admission to the Pharmacy Technology Program.		
Six hours clinical experience, 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.		
PHT 60B	RETAIL CLINICAL	1 Unit
Prerequisite: PHT 60A.		
Six hours clinical experience, one hour case studies.		
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 61	HOME HEALTHCARE SUPPLIES	3 Units
Prerequisite: PHT 50.		
Two hours lecture, three hours laboratory.		
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.		
PHT 62A	HOSPITAL CLINICAL	1 Unit
Prerequisite: Admission to Pharmacy Technology Program.		
Six hours clinical experience, one hour case studies.		
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 62B	HOSPITAL CLINICAL	1 Unit
Prerequisite: PHT 62A		
Six hours clinical experience, one hour case studies.		
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.		
PHT 200L	PHARMACY TECHNICIANS AS A CAREER	1 Unit
Non-degree applicable credit course.		
One and one-half lecture-laboratory.		
Introduction to the pharmaceutical sciences and the functions of a pharmacy technician in health care. Role of the pharmacy technician, areas of specialization in the field, technical standards, state registration requirements and employment opportunities.		

PHILOSOPHY

Business & Social Sciences Division	(650) 949-7322
	www.foothill.edu/bss/
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. Situational ethics. [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	
May be taken six times for credit.			
One hour lecture.			
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	
Any combination of PHIL 36, 36X, 36Y & 36Z may be taken for a maximum of six units.			
One hour lecture for each unit of credit.			
Advanced readings research, and/or project in philosophy. Specific topics determined in consultation with instructor.			

PHOTOGRAPHY

Fine Arts & Communication Division (650) 949-7262
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: PHOT 1.			
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.			
May be taken two times for credit.			
Two hours lecture, three hours laboratory.			
Emphasis on control of available light through use of tripods and push-processing; use of electronic flash and studio lights; attributes of various films and appropriate chemistry for each; graded papers; larger format cameras, introduction to sensitometry; specialized developing and printing techniques, enhancing personal photographic expression; digital manipulation of the photographic image.			
PHOT 2LX	INTERMEDIATE PHOTO PRODUCTION LABORATORY	1 Unit	
Corequisite: PHOT 2.			
Three hours laboratory.			
Supervised use of photographic darkroom equipment and procedures for the intermediate photography student. Hours to be arranged.			
PHOT 5	INTRODUCTION TO PHOTOGRAPHIC EXPRESSION	3 Units	
Three hours lecture, two hours lecture-laboratory.			
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 8	PHOTOGRAPHY OF MULTICULTURAL AMERICA	4 Units	
Four hours lecture, one and one-half hours laboratory.			
Examination of photography's role in shaping ideas about race, class, gender, sexuality and national identity in America. Critical analysis of images from a wide range of genres including: commercial photography, portraiture, social documentary, photojournalism, ethnographic and scientific photography, erotica, and fine-art photography are discussed within their historical and social context.			
PHOT 10	HISTORY OF PHOTOGRAPHY	4 Units	
Advisory: PHOT 1 or equivalent.			
Three hours lecture, three hours laboratory.			
The history of still photography from the earliest investigations of the camera obscura to late 20th Century electronic imaging. Emphasis on the role of photographs as a social and cultural force and on our artistic heritage of camera work.			
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	4 Units	
Formerly: PHOT 59			
Three hours lecture, three hours laboratory.			
Survey of contemporary issues in photography. Critical theory and other issues surrounding contemporary photographic practices are explored through the style and content of work by selected contemporary photographers. Censorship, copyright, appropriation, and other current issues affecting the contemporary photographer are discussed. The interplay of traditional and digital photography and how it affects our concepts of truth, reality, society, and culture.			
PHOT 13	EXPERIMENTAL PHOTOGRAPHY	3 Units	
Advisory: PHOT 2.			
May be taken three times for credit.			
Two hours lecture, three hours laboratory.			
Exploration of experimental approaches to creative photography, using silver and nonsilver processes. Introduction to digital manipulation of images.			
PHOT 34	HONORS INSTITUTE SEMINAR IN PHOTOGRAPHY	1 Unit	
Prerequisite: Membership in the Honors Institute.			
May be taken two times for credit.			
One hour lecture.			
A seminar in directed readings, discussions and projects in photography. Specific topics to be determined by the instructor.			
PHOT 50	ADVANCED PHOTOGRAPHY	3 Units	
Prerequisite: PHOT 2.			
May be taken three times for credit.			
Two hours lecture, three hours laboratory.			
Exploration of photographic seeing through the use of advanced processing and printing techniques; introduction to the Zone System and film calibration; creating special effects; high contrast and infrared films; integration of aesthetics and technique, emphasis on development of a personal style.			
PHOT 51	ZONE SYSTEM PHOTOGRAPHY	3 Units	
Prerequisite: PHOT 2.			
May be taken three times for credit.			
Two hours lecture, three hours laboratory.			
An exploration of the Zone System through use of special processing and fine printing techniques. A study of the integration of aesthetics, film calibration, development of film, printing, and techniques associated with the Zone System. Acquisition of fine printing and archival processing techniques suitable for producing exhibit quality presentations. Application of understanding of Zone System to both digital and color materials. Appreciation of contributions by photographers of diverse backgrounds.			

PHOT 53	INTRODUCTION TO COLOR SLIDES	3 Units	PHOT 63	PHOTOJOURNALISM	3 Units
Prerequisite: PHOT 2.			Prerequisite: PHOT 2.		
May be taken three times for credit.			May be taken four times for credit.		
Two hours lecture, three hours laboratory.			Two hours lecture, three hours laboratory.		
Introduction to color transparencies, including exposure and development of color slides, types of films; contrast control and color balance; projection of color slides as a series and as multi-image presentations; making color enlargements from transparencies; aesthetic and technical evolution of the color image from autochromes to the present, including digital and computer-altered imagery.			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.		
PHOT 55	SPECIAL PROJECTS IN PHOTOGRAPHY	2 Units	PHOT 65A	INTRODUCTION TO DIGITAL IMAGING	4 Units
Prerequisite: PHOT 2 or 65B.			Prerequisite: PHOT 1, PHOT 5 or equivalent.		
May be taken six times for credit.			May be taken three times for credit.		
One hour lecture, three hours laboratory.			Two hours lecture, three hours lecture-laboratory, one and one-half hours laboratory.		
Specific topics in creative, technical or applied photography must be determined in consultation with instructor. A limited area is explored in depth.			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.		
PHOT 57	PHOTOGRAPHIC PORTFOLIO	3 Units	PHOT 65B	INTERMEDIATE DIGITAL IMAGING	4 Units
Prerequisite: PHOT 1, 2, 50, 59 or PHOT 5, 65A, 65B, 65C, or instructor's permission.			Prerequisite: PHOT 65A or equivalent experience.		
May be taken three times for credit.			May be taken three times for credit.		
One hours lecture, three hours laboratory.			Two hours lecture, three hours lecture-laboratory, one and one-half hours laboratory.		
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.			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.		
PHOT 57A	PHOTOGRAPHIC PORTFOLIO DEVELOPMENT	3 Units	PHOT 65C	ADVANCED DIGITAL IMAGING	3 Units
Prerequisite: PHOT 1, 2, 50 or PHOT 5, 65A, 65B or instructor's permission.			Prerequisite: PHOT 65B or equivalent.		
Advisory: PHOT 10 or 11.			Two hours lecture, three hours lecture-laboratory, one and one-half hours laboratory.		
May be repeated three times for credit.			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.		
Two hours lecture, three hours laboratory.					
Organization and assembly of a photographic portfolio from concept to final presentation. Intensive advanced class requiring the student to build a group of photographic works that function both individually and as a group. Concerns will include how to make images that communicate clearly, how to blend technical execution with meaning and how to give and receive feedback to further a photographic project and that of fellow photographers.					
PHOT 57B	PROFESSIONAL PRACTICES IN PHOTOGRAPHY	3 Units	PHOT 67	CAREERS IN THE VISUAL ARTS	2 Units
Prerequisite: PHOT 1, 2, 50 or PHOT 5, 65A, 65B and PHOT 57A, or instructor's permission.			Advisory: Not open to students with credit in ART 71, GRDS 51, MUS 68.		
Advisory: PHOT 10 or 11.			Two hours lecture.		
May be repeated three times for credit.			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		
Two hours lecture, three hours laboratory.					
Organization of photographic work from prior classes and projects to meet individual goals including transfer, exhibition and employment. Development of professional materials such as resume, website and business cards as well as finalization of a photographic portfolio to meet the qualifications for an A.A. Degree in Photography. Develop support materials for applications and exhibitions. Student must share work with photography community through exhibition or other methods of display.					
PHOT 60	PHOTOGRAPHY & THE NEW TECHNOLOGIES	3 Units	PHOT 68	SPECIAL TOPICS IN PHOTOGRAPHY	1 Unit
Advisory: PHOT 1 or equivalent experience.			Advisory: PHOT 1 or 65A.		
May be taken two times for credit.			May be taken six times for credit.		
Two hours lecture, three hours laboratory.			One hour lecture.		
Basic instruction in use of the new photographic technologies of computer-enhanced imagery, digital image-making and digital printing. Overview of the contemporary use of images and computers in commerce, media and fine art expression. Web pages, virtual reality and the latest in digital photo equipment are explored.			Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s).		
PHOT 70	INTRODUCTION TO COLOR PHOTOGRAPHY	3 Units			
Prerequisite: PHOT 2.					
May be taken three times for credit.					
Two hours lecture, three hours laboratory.					
Introduction to color transparencies, types of transparency films; contrast control and color balance; projection of color slides as a series and as multi-image presentations; making color enlargements from transparencies. Introduction to printing color negatives, including various controls on exposure, developing and printing. Theory and principles of three-color photography, including densitometry as related to evaluation of negatives and selection of proper filtration.					

PHOT 71 THE PHOTOGRAPHIC BOOK	3 Units	PHOT 150 PHOTOGRAPHY PRODUCTION	.5 Unit
Prerequisite: PHOT 1, 65A, and 65B, or equivalent experience.		PHOT 150X LABORATORY	1 Unit
May be taken three times for credit.		PHOT 150Y	2 Units
Two hours lecture, three hours laboratory.		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	Any combination of PHOT 150, 150X, 150Y & 150Z may be taken for a maximum of 18 units.	
Prerequisite: PHOT 65A or equivalent experience.		Two hours laboratory for each half unit 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, 2.		PHOT 180X	1 Unit
May be taken three times for credit.		PHOT 180Y	2 Units
Two hours lecture, three hours laboratory.		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 75 INTRODUCTION TO COMPUTER GRAPHICS	4 Units	Any combination of PHOT 180, 180X, 180Y & 180Z may be taken for a maximum of 18 units.	
Advisory: Familiarity with computer operating systems; ART 4A or GID 70; ART 5A; PHOT 1. Not open to students with credit in ART 56 or GID 74.		Two hours laboratory for each half unit of credit.	
Six hours lecture-laboratory, three hours laboratory.		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.	
Basic instruction using the computer for painting, drawing, image processing, photo composites and typography. Emphasis on image making and creative problem solving.			
PHOT 78 FIELD STUDY IN PHOTOGRAPHY	1 Unit	PHOT 190 DIRECTED STUDY	.5 Unit
Advisory: PHOT 1 or 65A.		PHOT 190X	1 Unit
May be taken six times for credit.		PHOT 190Y	1.5 Units
One hour lecture.		PHOT 190Z	2 Units
Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s) in the field.		Prerequisite: PHOT 1 or 5 or equivalent.	
PHOT 83 SERVICE LEARNING PROJECTS	4 Units	Advisory: Pass/No Pass.	
Advisory: Completion of entry-level photography courses.		Any combination of PHOT 190, 190X, 190Y & 190Z may be taken for a maximum of 12 units.	
May be taken three times for credit.		One-half hour lecture, one and one-half hours laboratory for each half unit of credit.	
Six hours lecture-laboratory, three hours laboratory.		Directed study for students who desire or require additional help in attaining comprehension and competency in learning skills in a photographic area.	
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.			
PHOT 125 PHOTOGRAPHIC LAB MANAGEMENT	3 Units	PHYSICAL SCIENCES & ENGINEERING	
Advisory: Completion of beginning photography class.		Physical Sciences, Mathematics & Engineering Division (650) 949-7259	
Three hours lecture.		www.foothill.edu/psme	
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.			
PHOT 130 PRESENTING, PRESERVING & RESTORING PHOTOGRAPHS	3 Units	PSE 111 PASS THE TORCH TEAM LEADER TRAINING	1 Unit
Advisory: PHOT 1 or 65A.		Prerequisite: An earned A or B+ grade with instructor recommendation in one of the following courses: MATH 200, 101, 105, 10, 49, 51, 1A, 1B, 1C, 1D, 2A, 2B. Student must currently be a team leader for a Pass the Torch study team.	
May be taken six times for credit.		May be taken three times for credit.	
Two hours lecture, three hours laboratory.		One hour lecture.	
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.		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/psme	
		PHYS 2A GENERAL PHYSICS	5 Units
		Prerequisite: MATH 51 and 105.	
		Three hours lecture, one hour problem session, one hour lecture-laboratory, two hours laboratory, one hour terminal time.	
		Lectures, demonstrations, and problems in mechanics; properties of matter. [CAN PHYS 2 = PHYS 2A+2B, CAN PHYS SEQ A = PHYS 2A+2B+2C]	

PHYS 2B GENERAL PHYSICS 5 Units**Prerequisite: PHYS 2A.****Three hours lecture, one hour problem session, one hour lecture-laboratory, two hours laboratory, one hour terminal time.****Lectures, demonstrations, and problems in thermal physics; electricity and magnetism. [CAN PHYS 2 = PHYS 2A+2B, CAN PHYS SEQ A = PHYS 2A+2B+2C, CAN PHYS 4 = PHYS 2B+2C]****PHYS 2C GENERAL PHYSICS 5 Units****Prerequisite: PHYS 2B.****Three hours lecture, one hour problem session, one hour lecture-laboratory, two hours laboratory, one hour terminal time.****Lectures, demonstrations, and problems in waves; optics; introductory quantum mechanics; atomic physics; and nuclear physics. [CAN PHYS 4 = PHYS 2B+2C, CAN PHYS SEQ A = PHYS 2A+2B+2C]****PHYS 4A GENERAL PHYSICS (CALCULUS) 5 Units****Prerequisite: High school physics or PHYS 6 (highly recommended), or PHYS 2A; MATH 1B (may be taken concurrently).****Four hours lecture, one hour problem session, one hour preparation for laboratory, two hours laboratory, one hour terminal time.****Mathematics-physics interrelationships, classical Newtonian mechanics. [CAN PHYS 8, CAN PHYS SEQ B = PHYS 4A+4B+4C, CAN PHYS SEQ C = PHYS 4A+4B+4C+4D]****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 terminal time.****Classical electricity and magnetism. [CAN PHYS 12, CAN PHYS SEQ B = PHYS 4A+4B+4C, CAN PHYS SEQ C = PHYS 4A+4B+4C+4D]****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 terminal time.****Thermodynamics; mechanical, acoustical, and electromagnetic waves; optics. [CAN PHYS 14, CAN PHYS SEQ B = PHYS 4A+4B+4C, CAN PHYS SEQ C = PHYS 4A+4B+4C+4D]****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 terminal time.****Special relativity, statistical mechanics, quantum mechanics, atomic physics, nuclear physics, particle physics. [CAN PHYS 16, CAN PHYS SEQ C = PHYS 4A+4B+4C+4D]****PHYS 6 INTRODUCTORY PHYSICS 5 Units****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: Previous experience in physics.****Any combination of PHYS 36, 36X & 36Y may be taken for a maximum of six units.****Three hours laboratory for each unit of credit.****Advanced readings and projects in physics. Specific projects determined on consultation with instructor. Written reports required. Enrollment generally limited to those students enrolled in the PHYS 4 sequence.****PHYS 190 DIRECTED STUDY .5 Unit****PHYS 190X 1 Unit****PHYS 190Y 1.5 Units****PHYS 190Z 2 Units****Advisory: Pass/No Pass.****Any combination of PHYS 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.****One-half hour lecture, one and one-half hours laboratory for each half unit of credit.****For students who desire or require additional help in attaining comprehension and competency in learning skills.****POLITICAL SCIENCE****Business & Social Sciences Division****(650) 949-7322****www.foothill.edu/bss/****POLI 1 POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS 5 Units****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****Advisory: Eligibility for ENGL 1A or ESL 26.****Four hours lecture.****Introductory analysis of comparative government and politics emphasizing variety of political forms, theory of political differentiation and development, and the politics and governmental structures in industrialized societies, developing nation states and socialist states.****POLI 3 INTRODUCTION TO POLITICAL PHILOSOPHY: SCOPE & METHODS 5 Units****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**Four hours lecture.**

Historical and contemporary analysis of Russian and East European (Hungarian, Polish and Czech-Slovak) political institutions and political cultures. Focus on transition, an examination of the factors related to each country's contemporary political transition.

**POLI 7 AMERICAN GOVERNMENT & POLITICS 5 Units
FROM A BLACK PERSPECTIVE****Five hours lecture.**

Analysis of the relationship between Black American citizens and the American political system at the national, state and local levels. Emphasis on the American political system, its political institutions, the principles and processes that give rise to them, and their impact on Blacks as a racial ethnic minority in the context of American political democracy.

POLI 8 POST WORLD WAR II GERMANY 4 Units

Prerequisites: Eligibility for ENGL 1A, ESL 26 or equivalent.

Advisory: Not open to students with credit in 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

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/ 4 Units
WORLD POLITICS****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 4 Units
FOREIGN POLICY**

Advisory: Not open to students with credit in HIST 24.

Four hours lecture.

Analysis of American foreign policy from 1898 to the present, emphasizing the relationship between policy-making, American national interest, and the American people.

**POLI 34 HONORS INSTITUTE SEMINAR 1 Unit
IN POLITICAL SCIENCE**

Prerequisite: Membership in the Honors Institute.

One hour lecture.

A seminar in directed readings, discussions and projects in political science. Specific topics to be determined by the instructor.

**POLI 35 DEPARTMENT HONORS PROJECTS 1 Unit
IN POLITICAL SCIENCE**

May be taken six times for credit.

One hour lecture.

Seminar in political science readings, research, critical techniques and practice. Specific topics vary.

**POLI 36 SPECIAL PROJECTS IN 1 Unit
POLITICAL SCIENCE**
POLI 36X
POLI 36Y
POLI 36Z
2 Units
3 Units
4 Units

Any combination of POLI 36, 36X, 36Y & 36Z may be taken for a maximum of six units.

One hour lecture for each unit of credit.

Advanced readings, research and/or project in 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

Prerequisite: Admission to the Primary Care Associate Program.

Nine hours lecture, ten hours lecture-laboratory, 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

Prerequisite: Admission to the Primary Care Associate Program.

Ten hours laboratory, 12 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

Prerequisite: PC 80; Successful completion of previous didactic course in the Primary Care Associate Program.

Eight hours lecture, 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.

27 hours clinic, 12 hours laboratory, 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, 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.

32 hours preceptor-clinic, 12 hours laboratory, 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, 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.

32 hours preceptor-clinic, 12 hours laboratory, two hours field study.

Continuation of PC 82P.

P C 84 FAMILY MEDICINE DIDACTIC 8 Units

Prerequisite: PC 83.

Eight hours lecture, 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.		
32 hours preceptor-clinic, 12 hours laboratory, two hours field study. This is a continuation of PC 83P.		
P C 85	SPECIAL CLINICAL PROJECTS IN	4 Units
P C 85X	PRIMARY CARE MEDICINE	5 Units
P C 85Y		6 Units
Five hours clinical practicum for each unit of credit.		
A clinical preceptorship designed to provide experience in selected medical settings.		
P C 86	SPECIAL DIDACTIC PROJECTS	4 Units
P C 86X	IN PRIMARY CARE MEDICINE	5 Units
P C 86Y		6 Units
Prerequisite: Successful completion of previous didactic courses in the Primary Care Associate Program.		
Five hours didactic for each unit of credit.		
Projects in selected medical topics in primary care medicine.		
P C 87	EXTENDED CLINICAL INTERNSHIP	1 Unit
May be taken six times for credit.		
Five hours laboratory.		
Extended clinical internship. Offers additional period of clinical exposure for students needing further clinical time to develop requisite skills.		
P C 88	EXTENDED CLINICAL INTERNSHIP	2 Units
May be taken six times for credit.		
Ten hours laboratory.		
Extended clinical internship. Offers additional period of clinical exposure for students needing further clinical time to develop requisite skills. Offered each quarter.		
P C 89	EXTENDED CLINICAL INTERNSHIP	3 Units
May be taken six times for credit.		
15 hours laboratory.		
Extended clinical internship. Offers additional period of clinical exposure for students needing further clinical time to develop requisite skills.		
P C 190	DIRECTED STUDY IN PRIMARY	.5 Unit
P C 190X	CARE MEDICINE	1 Unit
P C 190Y		1.5 Units
P C 190Z		2 Units
Advisory: Pass / No Pass.		
Any combination of P C 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.		
One-half hour lecture, one and one-half hour laboratory for each unit of credit.		
For students who desire or require additional help in attaining comprehension and competency in learning skills.		

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, 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
Four hours lecture.		
Introduction to the determinants of personality and the dynamics of personality as manifested in personal and social behavior.		
PSYC 34	HONORS INSTITUTE SEMINAR IN PSYCHOLOGY	1 Unit
Prerequisite: Membership in the Honors Institute.		
One hour lecture.		
A seminar in directed readings, discussions and projects in psychology. Specific topics to be determined by the instructor.		
PSYC 35	DEPARTMENT HONORS PROJECTS IN PSYCHOLOGY	1 Unit
May be taken six times for credit.		
One hour lecture.		
Seminar in psychological readings, research, critical techniques and practice. Specific topics vary.		
PSYC 36	SPECIAL PROJECTS IN PSYCHOLOGY	1 Unit
PSYC 36X		2 Units
PSYC 36Y		3 Units
PSYC 36Z		4 Units
Any combination of PSYC 36, 36X, 36Y & 36Z may be taken for a maximum of six units.		
One hour lecture for each unit of credit.		
Advanced readings, research and/or project in psychology. Specific topics determined in consultation with instructor.		

PSYC 40	HUMAN DEVELOPMENT	4 Units	RTT 60	PATIENT CARE IN RADIATION ONCOLOGY	2 Units
Four hours lecture.			Prerequisite: RTT 71C.		
Intellectual, social and personality development through the life span.			Two hours lecture.		
PSYC 49	HUMAN SEXUALITY	4 Units	Patient care, nursing procedures and recordkeeping pertinent to patients undergoing radiation therapy. Includes psychological aspects of oncology, medical-legal concepts and quality assurance.		
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	RTT 61A	RADIATION THERAPY PHYSICS I	3 Units
Four hours lecture.			Prerequisite: RTT 59B.		
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.			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 57	ORIENTATION TO RADIATION THERAPY TECHNOLOGY	2 Units	RTT 61B	RADIATION THERAPY PHYSICS II	3 Units
Prerequisite: Admission to Radiation Therapy Technology Program.			Prerequisite: RTT 61A.		
Two hours lecture, three hours clinic.			Three hours lecture.		
Orientation to Radiation Therapy Technology with an introduction to clinical participation.			Fundamentals of nuclear physics and radioactive decay, brachytherapy, radiation protection, and health physics.		
RTT 58A	FUNDAMENTALS OF RADIATION TECHNOLOGY FOR RADIATION THERAPISTS	3 Units	RTT 62B	RADIATION BIOLOGY	3 Units
Prerequisite: RTT 57.			Prerequisite: RTT 61B.		
Three hours lecture.			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.			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 58B	FUNDAMENTALS OF RADIATION TECHNOLOGY FOR RADIATION THERAPISTS	3 Units	RTT 63C	RADIATION ONCOLOGY III	3 Units
Prerequisite: Admission to Radiation Therapy Technology Program.			Prerequisite: RTT 64C.		
Three hours lecture.			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.			Consolidation of all aspects of radiation therapy technology in preparation for program completion.		
RTT 59A	TECHNICAL RADIATION ONCOLOGY	3 Units	RTT 64A	CLINICAL RADIATION ONCOLOGY I	4 Units
Prerequisite: Admission to Radiation Therapy Technology Program.			Prerequisite: RTT 60.		
Three hours lecture.			Four 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.			Principles of clinical oncology and treatment with concentration on breast, male reproductive and genitourinary sites. Anatomical review, treatment reactions and management, lymphatic drainage, simulation and treatment. Discussion of oncologic emergencies.		
RTT 59B	RADIATION ONCOLOGY & PATHOLOGY	3 Units	RTT 64B	CLINICAL RADIATION ONCOLOGY II	4 Units
Prerequisite: RTT 59A.			Prerequisite: RTT 64A.		
Three hours lecture.			Four 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.			Principles of clinical oncology and treatment with concentration on gynecological and digestive tumors, lymphoreticular system, and Leukemia. Anatomical review, treatment reactions and management, lymphatic drainage, simulation and treatment.		
RTT 71A	CLINICAL PRACTICUM	3 Units	RTT 64C	CLINICAL RADIATION ONCOLOGY III	4 Units
Prerequisite: Admission to the Radiation Therapy Technology Program.			Prerequisite: RTT 64B.		
16 hours laboratory, two hours case study research.			Four hours lecture.		
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.			Principles of clinical oncology and treatment with concentration on head & neck, central nervous system, lung, bone, soft tissue, pediatric solid tumors. Anatomical review, treatment reactions and management, lymphatic drainage, simulation and treatment.		
RTT 71B	CLINICAL PRACTICUM	3 Units	RTT 71A	CLINICAL PRACTICUM	3 Units
Prerequisite: RTT 71A.			Prerequisite: RTT 71A.		
16 hours laboratory, two hours case study research.			16 hours laboratory, two hours case study research.		
Radiation therapy department rotation, including experience in simulation and/or treatment procedures with progressive skill development. Includes on-campus lab practicum.			Radiation therapy department observation and participation, including experience in simulation and/or treatment procedures with progressive skill development. Includes on-campus lab practicum.		

RTT 71C CLINICAL PRACTICUM	3 Units	RTT 190 DIRECTED STUDY	.5 Unit
Prerequisite: RTT 71B.		RTT 190X	1 Unit
16 hours laboratory, two hours case study research.		RTT 190Y	1.5 Units
Radiation therapy department rotation, including experience in simulation and/or treatment procedures with progressive skill development. Includes on-campus lab practicum.		RTT 190Z	2 Units
RTT 71D CLINICAL PRACTICUM	4 Units	Advisory: Pass/No Pass.	
Prerequisite: RTT 71C.		Any combination of RTT 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.	
21 hours clinic, two hours case study research.		One-half hour lecture, one and one-half hours laboratory for each half unit of credit.	
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.		For students who desire or require additional help in attaining comprehension and competency in learning skills.	
RTT 72A DOSIMETRY I	3 Units	RTT 200L INTRODUCTION TO RADIATION THERAPY	1 Unit
Prerequisite: RTT 59B.		Two hours lecture-laboratory.	
Three hours lecture.		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.	
RTT 72B DOSIMETRY II	3 Units	RADIO	
Prerequisite: RTT 72A.		Fine Arts & Communication Division	(650) 949-7555
Three hours lecture.			www.kfjc.org/ and www.foothill.edu/fa/
Advanced clinical dosimetry concepts, including terminology, use of tables and graphs, dose calculations and construction of manual and computer-generated treatment plans.		RAD 70 SPECIAL PROJECTS IN RADIO	1 Unit
RTT 73A CLINICAL PRACTICUM	7 Units	RAD 70X	2 Units
Prerequisite: RTT 71C.		RAD 70Y	3 Units
32 hours clinic, two hours case study research.		RAD 70Z	4 Units
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.		Any combination of RAD 70, 70X, 70Y & 70Z may be taken for a maximum of 48 units.	
RTT 73B CLINICAL PRACTICUM	7 Units	Three hours of laboratory for each unit of credit.	
Prerequisite: RTT 73A.		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.	
32 hours clinic, two hours case study research.		RAD 80 FUNDAMENTALS OF RADIO PRODUCTION & STATION OPERATION	3 Units
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		Two hours lecture, three and one-half hours laboratory.	
RTT 73C CLINICAL PRACTICUM	7 Units	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.	
Prerequisite: RTT 73B.		RAD 81 HISTORY OF RADIO 1920-PRESENT	4 Units
32 hours clinic, two hours case study research.		Four hours lecture.	
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.		A comprehensive study of the radio broadcasting industry, its origin, development, operation, regulation, and influences.	
RTT 73D CLINICAL PRACTICUM	6 Units	RAD 90A NEWS & INFORMATION PRODUCTION	3 Units
Prerequisite: RTT 73C.		Advisory: Concurrent enrollment in RAD 80.	
29 hours clinic, two hours case study research.		One hour lecture, six hours laboratory.	
Advanced clinical participation; students assist in treatment planning, simulation, and concentration on completing procedures under supervision but without assistance, using independent judgment.		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.	
RTT 80 ADDITIONAL CLINICAL PRACTICUM	.5 Unit	RAD 90B NEWS & INFORMATION PRODUCTION	3 Units
RTT 80X	1 Unit	Prerequisite: RAD 90A.	
RTT 80Y	1.5 Units	One hour lecture, six hours laboratory.	
Prerequisite: RTT 71A or subsequent Clinical Practicum.		Intermediate scripting, voicing, and recording of informational programming.	
May be taken six times for credit.		Advancement in news, public affairs, sports, public service announcement production and department operations at the Foothill College FM station.	
Four hours laboratory for each half unit of credit.		RAD 90C,D NEWS & INFORMATION PRODUCTION	3 Units
Additional clinical practicum. Offers additional period of clinical experience for students needing further clinical time to develop requisite skills.		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	RAD 93D	MUSIC INDUSTRY RELATIONS & ENGINEERING	3 Units
Advisory: RAD 90A.			Advisory: RAD 90A.		
One hour lecture, six hours laboratory.			One hour lecture, six hours laboratory.		
Fundamentals of radio sales training, marketing, promotions and publicity, and departmental operations at the Foothill College FM station.			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 91B	RADIO STATION SALES & MARKETING	3 Units	RAD 190	DIRECTED STUDY	.5 Unit
Advisory: RAD 90.			RAD 190X		1 Unit
One hour lecture, six hours laboratory.			RAD 190Y		1.5 Units
Intermediate radio sales training, marketing, publicity and promotions, and departmental operations at the Foothill College FM station.			RAD 190Z		2 Units
RAD 91C,D	RADIO STATION SALES & MARKETING	3 Units	Advisory: Pass/No Pass.		
Advisory: RAD 90A.			Any combination of RAD 190, 190X, 190Y & 190Z may be taken for a maximum of 24 units.		
One hour lecture, six hours laboratory.			One-half hour lecture, one and one-half hours laboratory for each half unit of credit.		
Advanced radio sales training, marketing, promotions and publicity, and departmental operations at the Foothill College FM station.			For students who desire or require additional help in attaining comprehension and competency in learning skills.		
RAD 92A	RADIO PROGRAMMING & PRODUCTION	3 Units			
Advisory: RAD 90A.					
One hour lecture, six hours laboratory.					
Basic production studio and master control room operation. Practical experience in planning, announcing, and engineering of live on-air shifts and pre-recorded announcements and programs.					
RAD 92B	RADIO PROGRAMMING & PRODUCTION	3 Units			
Advisory: RAD 90A.					
One hour lecture, six hours laboratory.					
Intermediate production studio and control room operation. Practical experience in the planning, announcing, and engineering of live on-air shifts and pre-recorded announcements and programs and departmental operations at the Foothill College FM station.					
RAD 92C,D	RADIO PROGRAMMING & PRODUCTION	3 Units			
Advisory: RAD 90A.					
One hour lecture, six hours laboratory.					
Advanced production studio and control room operation. Practical experience in the planning, announcing, and engineering of live on-air shifts and pre-recorded announcements and programs, and departmental operations in the Foothill College FM station.					
RAD 93A	MUSIC INDUSTRY RELATIONS & ENGINEERING	3 Units			
Advisory: RAD 90A.					
One hour lecture, six hours laboratory.					
Beginning music industry relations and engineering. Solicitation of product service, reporting to industry trade journals, producing live music performance broadcast mixes and mobile DJ appearances, and departmental operations at the Foothill College FM station.					
RAD 93B	MUSIC INDUSTRY RELATIONS & ENGINEERING	3 Units			
Advisory: RAD 90A.					
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			
Advisory: RAD 90A.					
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.					

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
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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 51A	FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY	3 Units
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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
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Prerequisite: R T 51A.
Three hours lecture.
Continuation of R T 51A; radiographic anatomy, positioning and procedures related to the gastrointestinal tract, urinary system and biliary system.

R T 51C	FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY	3 Units
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Prerequisite: R T 51B.
Three hours lecture.
Continuation of R T 51B; radiographic anatomy, positioning and terminology, related to the skull, vertebral column, bony thorax, myelography and arthrography.

R T 52A	PRINCIPLES OF RADIOLOGIC TECHNOLOGY	3 Units
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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
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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	R T 54A	LAW & ETHICS IN MEDICAL IMAGING	2 Units
	<i>Formerly: R T 50B</i>				
	Prerequisite: R T 52B.			Prerequisite: R T 50A.	
	Three hours lecture.			Two hours lecture.	
	Continuation of RT 52B. Expansion of principles of X-ray physics, technique and protection.			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 52D	PRINCIPLES OF RADIOLOGIC TECHNOLOGY	2 Units	R T 54B	BASIC PATIENT CARE FOR IMAGING TECHNOLOGY	2 Units
	<i>Formerly: R T 50A</i>				
	Prerequisite: R T 52C.			Prerequisite: R T 50.	
	Two hours lecture.			Two hours lecture.	
	Review image production and radiographic technical factors. Introduction to digital radiography and Picture Archiving Computer Systems (PACS).			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 53	ORIENTATION TO RADIOLOGIC TECHNOLOGY	1 Unit	R T 54C	PRINCIPLES OF RADIOLOGIC TECHNOLOGY	3 Units
	Prerequisite: Admission to Radiologic Technology Program.			<i>Formerly: R T 51D</i>	
	Four hours laboratory.			Prerequisite: R T 50B.	
	Orientation to radiation sciences, with emphasis on clinical participation.			Three hours lecture.	
R T 53A	APPLIED RADIOGRAPHIC TECHNOLOGY	1.5 Units		Radiographic Pathology of the respiratory, osseous, urinary, gastrointestinal, central nervous, and hemopoietic system.	
	Prerequisite: Admission to Radiologic Technology Program.				
	Eight hours laboratory, two hours case study research.				
	Applied radiography; includes clinical observation and application of film analyses, basic positioning, patient care, equipment, manipulation and radiation protection.				
R T 53AL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY	1 Unit	R T 61B	RADIOLOGY RESEARCH PROJECT	1 Unit
	Prerequisite: Admission to Radiologic Technology Program.			Prerequisite: RT 62A and 63A.	
	Three hours laboratory.			One hour lecture, two hours case study research.	
	Applied radiography; includes structured lab activities in processing, film analysis, basic positioning, patient care, equipment and radiographic experiment.			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 53B	APPLIED RADIOGRAPHIC TECHNOLOGY	3 Units	R T 62A	RADIOGRAPHIC POSITIONING	3 Units
	Prerequisite: RT 53A.			Prerequisite: R T 52D and 53D.	
	16 hours laboratory, two hours case study research.			Three hours lecture.	
	Continuation of applied radiography with emphasis on clinical skill development for positioning, processing, principles of exposure, film analyses, hospital observation.			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 53BL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY	1 Unit	R T 62B	SPECIAL PROCEDURES & EQUIPMENT	3 Units
	Prerequisite: RT 53A.			Prerequisite: R T 62A and 63A.	
	Three hours laboratory.			Three hours lecture.	
	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.			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 53C	APPLIED RADIOGRAPHIC TECHNOLOGY	3 Units	R T 62C	ADVANCED RADIOGRAPHIC POSITIONING	3 Units
	Prerequisite: RT 53B.			Prerequisite: RT 62B and 63B.	
	16 hours laboratory, two hours case study research.			Three hours lecture.	
	Continuation of clinical skill development in positioning, technique selection, protection, clinical observation, and practicum.			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 53CL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY	1 Unit	R T 62D	APPLIED RADIOLOGIC TECHNOLOGY	1 Unit
	Prerequisite: RT 53B.			Prerequisite: RT 62C.	
	Three hours laboratory.			Six hours clinical laboratory.	
	Continuation of structured lab skill development in positioning, technique selection, protection, clinical observation and practicum.			Clinical experience in advanced positioning of the skull, facial bones, mastoids and sinuses with emphasis on computed tomography.	
R T 53D	RADIOGRAPHIC CLINICAL PRACTICUM	8 Units	R T 63	ADVANCED RADIOGRAPHIC PRINCIPLES	3 Units
	Prerequisite: Completion of RT 51C, 52C and 53C.			Prerequisite: RT 62B.	
	27 hours laboratory, two hours case study research.			Three hours lecture.	
	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).			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.			
32 hours laboratory, 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.			
31 hours laboratory, two hours case study research.			
Special radiographic equipment, imaging modalities, and special radiographic procedures. Radiographic anatomy and pathology. Related clinical experience.			
R T 63C	RADIOGRAPHIC CLINICAL PRACTICUM	7.5 Units	
Prerequisite: RT 62B and 63B.			
32 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 63C.			
32 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	
Non-degree applicable credit course.			
Prerequisite: R T 52D or current certification in Radiologic Technology or Radiation Therapy Technology.			
May be taken three times for credit.			
Two and one-half hours lecture, one and one-half hours laboratory.			
The fluoroscopy course includes the principles of radiation protection and fluoroscopic equipment, application of special equipment, illumination and photometry, anatomy and physiology of the eye and relationship of internal organs.			
R T 65	MAMMOGRAPHY	3 Units	
Prerequisite: RT 63 or current certification in Radiologic Technology.			
May be taken three times for credit.			
Two and one-half hours lecture, one and one-half hours laboratory.			
Technical and procedural aspects of mammography including radiation protection and quality assurance aspects, breast anatomy, pathology, positioning and mass localization. Successful completion of this course entitles the student to a Certificate of Completion of a 40 hour course in mammography education.			
R T 66	COMPUTED TOMOGRAPHY REVIEW	2 Units	
Prerequisite: Must be a registered Radiologic Technologist or senior student in the Radiologic Technology Program.			
May be taken three times for credit.			
Two hours lecture.			
Includes the historical perspectives, image processing concepts, instrumentation, image quality, sectional anatomy, and radiation dose as related to computed tomography. Designed to prepare students for the ARRT Examination in Computed Tomography.			
R T 67	ADVANCED TOPICS IN MAMMOGRAPHY	2 Units	
Prerequisite: Must be a registered Radiologic Technologist or senior student in the Radiologic Technology Program.			
May be taken three times for credit.			
Two hours lecture.			
Designed to meet the continuing education requirements for radiologic technologist, especially mammographers. Course covers topics related to the subject of breast health, breast imaging techniques, current research, and state and national regulations.			
R T 68	MAGNETIC RESONANCE IMAGING REVIEW	2 Units	
Prerequisite: Must be a registered Radiation Science Technologist or senior student in a Radiation Science Program.			
May be taken three times for credit.			
Two hours lecture.			
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	
Prerequisites: One year post ARRT and CRT; a minimum of five hours of continuing education in the area of special procedures; successful completion of DMS 51A and current CPR certification.			
40 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	
Prerequisite: RT 70A.			
40 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	
Prerequisite: ARRT and CRT Certification, successful completion of Foothill sectional anatomy course, current CPR certification.			
40 hours laboratory.			
Designed as a practicum in a magnetic resonance department. Practical experience is implemented to expose the student to the principles of MRI with emphasis on mastery of the knowledge, insight, and skills required to perform MRI procedures.			
R T 72	VENIPUNCTURE	2 Units	
Prerequisites: 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	
Non-degree applicable credit course.			
Prerequisites: ARRT/CRT Certification or eligible. Successful completion of RT 65 and current CPR Certification.			
40 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	
Non-degree applicable credit course.			
40 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 T 190X		1 Unit	
R T 190Y		1.5 Units	
R T 190Z		2 Units	
Advisory: Pass/No Pass.			
Any combination of R T 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.			
One-half hour lecture, one and one-half hours laboratory for each half unit of credit.			
For students who desire or require additional help in attaining comprehension and competency in learning skills.			

R T 200L	RADIOLOGIC TECHNOLOGY AS A CAREER	1 Unit	R E 59	SURVEY OF REAL ESTATE PROPERTY MANAGEMENT	4 Units
Corequisite: AHS 200.			Advisory: RE 50 (may be taken concurrently).		
Two hours lecture-laboratory.			Four hours lecture.		
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).			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.		
REAL ESTATE					
Business & Social Sciences Division	(650) 949-7322		R E 61	INTRODUCTION TO REAL ESTATE INVESTMENTS	4 Units
	www.foothill.edu/bss/				
R E 50	REAL ESTATE PRINCIPLES	4 Units	Four hours lecture.		
Four hours lecture.			Basic concepts and ideas concerning real estate investment for the beginning investor. How to evaluate an investment in terms of personal goals, return of investment, return on investment, tax advantages, and long-range trends. Methods of financing and managing real estate investments.		
Fundamental principles, economics, law, working concepts, forms, and terminology. California real estate law as preparation for the salesman and broker examinations.					
R E 51	REAL ESTATE PRACTICES	4 Units	R E 73	COMMERCIAL REAL ESTATE FINANCE & INVESTMENT	4 Units
Advisory: RE 50 (may be taken concurrently), or a current California Real Estate sales or broker's license.			Four hours lecture.		
Four hours lecture.			Fundamental principles of finance and investment in local and regional commercial real estate, emphasizing banking, loans, underwriting, appraisal, lease preparation and renting.		
Emphasizes day-to-day practical knowledge needed by persons engaged in the real estate business; procedures, forms, contracts; licensing laws; State of California Code of Professional Responsibility; and NAR Code of Ethics.					
R E 52A	LEGAL ASPECTS OF REAL ESTATE I	4 Units	RESPIRATORY THERAPY TECHNOLOGY		
Advisory: RE 50 (may be taken concurrently).			Biological & Health Sciences Division	(650) 949-7292	
Four hours lecture.			www.foothill.edu/bio/programs/respther/		
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.			RSPT 50A	RESPIRATORY THERAPY PROCEDURES	4.5 Units
R E 53	REAL ESTATE FINANCE	4 Units	Prerequisite: Acceptance into Respiratory Therapy Program.		
Four hours lecture.			Advisory: Eligibility for ESL 26 or ENGL 1A.		
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.			Corequisite: RSPT 52.		
R E 54	REAL ESTATE ECONOMICS	4 Units	Three hours lecture, three hours laboratory, two hours skill development, one hour field experience.		
Four hours lecture.			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.		
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.			RSPT 50B	INTRODUCTION TO PROCEDURES & HOSPITAL ORIENTATION	6 Units
R E 56A	REAL ESTATE APPRAISAL I	4 Units	Prerequisite: RSPT 50A and CPR certification (Health Provider C) and RSPT 54.		
Advisory: RE 50 (may be taken concurrently).			Advisory: RSPT 51A.		
Four hours lecture.			Three hours lecture, four and one-half hours laboratory, five hours clinic, two and one-half hours skill development.		
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.			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.		
R E 56B	REAL ESTATE APPRAISAL II	4 Units	RSPT 50C	THERAPEUTICS & INTRODUCTION TO MECHANICAL VENTILATION	4.5 Units
Prerequisite: RE 56A.			Prerequisite: RSPT 50B and 53A.		
Four hours lecture.			Two hours lecture, two hours laboratory, 10 hours clinic, one and one-half hours lecture-laboratory.		
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.			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.		
RSPT 50X	RESPIRATORY THERAPEUTICS	4 Units	RSPT 50X	RESPIRATORY THERAPEUTICS	4 Units
			Prerequisite: Acceptance into the Upgrade Respiratory Therapy Program.		
			May be taken three times for credit.		
			Four hours lecture, one hour skills development.		
			A physiological and scientific basis of the modes of respiratory therapy used to treat pulmonary disorders. Develops the concepts and skills necessary to perform commonly prescribed respiratory therapy treatments.		
RSPT 51A	INTRODUCTION TO RESPIRATORY ANATOMY & PHYSIOLOGY	2 Units	Prerequisite: Acceptance into the Respiratory Therapy Program.		
			Two hours lecture.		
			Anatomy of the respiratory system, ventilation, diffusion of pulmonary gases, circulatory system, and oxygen transport.		

RSPT 51B RESPIRATORY PHYSIOLOGY	3 Units	RSPT 60B ADVANCED CARDIAC LIFE SUPPORT	2 Units
Prerequisite: RSPT 51A or equivalent.		Prerequisite: RSPT 53B and 60A.	
Three hours lecture.		Two hours lecture, one hour skills development.	
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.		Preparation for Advanced Cardiac Life Support Certification. Case studies.	
RSPT 51C PATIENT ASSESSMENT & PULMONARY DISEASE	4.5 Units	RSPT 60C PULMONARY DIAGNOSTICS	3 Units
Prerequisite: BIOL 41.		Prerequisite: RSPT 51C.	
Corequisite: RSPT 51B.		Two and one half hours lecture, one and one-half hours laboratory, one hour skills development.	
Four hours lecture, one hour laboratory, one-half hour lecture-laboratory.		Course covers selection, performance, and interpretation of tests used to diagnose cardiopulmonary abnormalities.	
Physiological approach to the etiology, management, and prognosis of the various respiratory diseases. Utilization of physical examination, chest X-ray and basic clinical laboratory tests in the diagnosis and treatment of pulmonary disease.			
RSPT 51X CARDIOPULMONARY ANATOMY, PHYSIOLOGY & PATHOLOGY	4 Units	RSPT 60X CARDIOPULMONARY DIAGNOSTICS	4 Units
Prerequisite: Acceptance into the Upgrade Respiratory Therapy Program.		Prerequisite: Completion of RSPT 50X and 51X.	
May be taken three times for credit.		Four hours lecture.	
Four hours lecture.		A survey of diagnostic tools and techniques used clinically to diagnose and assess the patient with cardiopulmonary dysfunction.	
Cardiopulmonary anatomy; respiratory physiology; respiratory lung mechanics; normal and altered lung physiology; ventilation-perfusion relationships; arterial blood gas interpretation and acid base balance; clinical laboratory tests; and cardiopulmonary disease.			
RSPT 52 APPLIED SCIENCE FOR RESPIRATORY THERAPY	3 Units	RSPT 61A ADULT MECHANICAL VENTILATION	4 Units
Prerequisite: CHEM 25 or 30A and MATH 101, or high school chemistry or equivalent.		Prerequisite: RSPT 50C and 51C.	
Three hours lecture.		Three hours lecture, three hours lecture-laboratory, one hour skills development.	
Basic mathematics and science principles applicable to Respiratory Therapy. Includes algebra review, metric system, behavior of matter, forces, acids and bases, and electrical safety.		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 53A INTRODUCTION TO RESPIRATORY THERAPY PHARMACOLOGY	2 Units	RSPT 61B NEONATAL & PEDIATRIC INTENSIVE CARE	4 Units
Prerequisite: MATH 101.		Prerequisite: RSPT 61A.	
Advisory: RSPT 50B.		Three hours lecture, three hours laboratory, two hours field experience.	
Two hours lecture.		Neonatal and pediatric respiratory intensive care.	
An in-depth study of drug groups commonly used in the treatment of airway obstruction.			
RSPT 53B ADVANCED RESPIRATORY THERAPY PHARMACOLOGY	2 Units	RSPT 61C HOME & REHABILITATIVE RESPIRATORY CARE	2 Units
Prerequisite: RSPT 53A.		Prerequisite: RSPT 61B.	
Corequisite: RSPT 60A.		Two hours lecture, one hour field study.	
Two hours lecture.		Introduction to rehabilitative respiratory care. Discussion of respiratory therapy procedures and equipment used in the treatment of home care patients.	
An in-depth study of drug groups commonly encountered in intensive respiratory care.			
RSPT 54 ORIENTATION TO RESPIRATORY CARE	1.5 Units	RSPT 62 MANAGEMENT, RESUME & NATIONAL BOARD EXAMINATION	1 Unit
Prerequisite: Acceptance into Respiratory Therapy Program.		Prerequisite: RSPT 61B.	
One hour lecture, two hours laboratory, one hour field experience.		One hour lecture, one hour skills development, one hour field experience.	
Orientation to health care with specific emphasis on respiratory care. Orientation to Respiratory Therapy Program. Current issues in American medical care. Professionalism; ethics; legal issues; death, dying and loss; communication skills; medical terminology; cultural diversity.		A review of the concepts of management theory and good communication skills. Developing a multicultural organization, current health care economics and resume preparation are covered. Students take the National Board for Respiratory Care Mock Entry-Level Examination.	
RSPT 55A-G DIRECTED STUDIES IN RESPIRATORY THERAPY	.5 Unit	RSPT 63A ADVANCED PATHOPHYSIOLOGY & PATIENT MANAGEMENT	3 Units
Two hours laboratory.		Prerequisite: Completion of RSPT 61A or Respiratory Care Practitioner status.	
Media instruction and evaluation in topics paralleling content taught in courses in the Respiratory Therapy Program. Offered each quarter.		May be taken three times for credit.	
		Three hours lecture, one hour skills development.	
		The assessment and treatment of patients with Respiratory Disease through the use of case studies that illustrate key concepts. Emphasis on information gathering and decision making for respiratory care patients. Helpful for NBRC Clinical Simulation Examination preparation.	
RSPT 60A CARDIOLOGY FOR RESPIRATORY THERAPISTS	2 Units	RSPT 63X NEONATAL & PEDIATRIC INTENSIVE CARE, HOME CARE & MANAGEMENT	4 Units
Prerequisite: RSPT 61A.		Prerequisite: RSPT 61A or 62X.	
Two hours lecture, one hour skills development.		Four hours lecture, one hour skills development.	
Electrocardiogram and rhythm recognition. Invasive and non-invasive hemodynamic monitoring. Cardiac diagnostic and therapeutic procedures. Fluid balance.		Neonatal and pediatric respiratory intensive care along with pulmonary rehabilitation and management of respiratory care services.	

SOSC 35	DEPARTMENT HONORS PROJECT	1 Unit
SOSC 35X	IN SOCIAL SCIENCE	2 Units
SOSC 35Y		3 Units
SOSC 35Z		4 Units

Any combination of SOSC 35, 35X, 35Y & 35Z may be taken a maximum of six times for credit.

One hour lecture.

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		4 Units

Any combination of SOSC 36, 36X, 36Y & 36Z may be taken for a maximum of six units.

Four hours lecture.

Advanced readings, research, and/or project in social science. Specific topics determined in consultation with instructor.

SOSC 75	TUTOR TRAINING METHODS	.5 Unit
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Prerequisite: Employment as a tutor. Grade of A in courses in which the student will be tutoring. Letter of recommendation from Foothill instructor in corresponding course.

May be taken three times for credit.

One-half hour lecture.

Introduction to theories and methods of effective tutoring, including role of a tutor, relationship of tutor to students and faculty.

SOSC 79	INTRODUCTION TO COMMUNITY SERVICE	1 Unit
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May be taken three times for credit.

Three or nine hours laboratory.

Introduction to theories and methods of effective volunteer participation in community service, including assessing community needs, role of the volunteer, relationship with public agencies.

SOSC 155	STANDARDIZED TEST PREPARATION	.5 Unit
		2 Units

Non-degree applicable credit course.

Advisory: Pass/No Pass.

Any combination of SOSC 155, 155X, 155Y & 155Z may be taken a maximum of six times for credit.

Two hours lecture.

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
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May be taken six times.

One-half hour lecture, seven and one-half hours laboratory.

Individual study and/or guidance provided for students who desire or require additional assistance in any discipline for which tutorial assistance is available.

SOSC 462	SUPERVISED BUSINESS & SOCIAL SCIENCES TECHNOLOGY TUTORING	0 Units
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May be taken six times.

One-half hour lecture, seven and one-half hours laboratory.

Individual study and/or guidance provided for students who desire or require additional assistance in technology related to business and social sciences instruction.

SOSC 490	SUPERVISED TUTORING	0 Units
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May be taken six times.

One-half hour lecture, one and one-half hours laboratory.

Individual study and/or guidance provided for students who desire or require additional assistance in any discipline for which tutorial assistance is available.

SOCIOLOGY

Business & Social Sciences Division

(650) 949-7322

www.foothill.edu/bss/

SOC 1	INTRODUCTION TO SOCIOLOGY	5 Units
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Five hours lecture.

Introduction to the principal concepts, methods, and insights of the scientific study of human society. The individual in his interaction with society; group life in its structural and functional aspects. Major social institutions and selected social processes. [CAN SOC 2]

SOC 10	INTRODUCTION TO SOCIAL RESEARCH	4 Units
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Advisory: Not open to students with credit in PSYC 10.

Four hours lecture.

Introduction to the most common types of research on human behavior: experimentation, survey research and field research. Examination of the logic of each technique, applicability of techniques using actual research studies; limitations of studying human behavior emphasized.

SOC 11	INTRODUCTION TO SOCIAL WELFARE	5 Units
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Five hours lecture.

Sociological perspective of social welfare and the social services system as a field of study and profession. Historical overview of social problems and development of the professional fields. Focus on range of sociological theory to explain development of social services systems, their core concepts, value systems and methods.

SOC 15	LAW & SOCIETY	4 Units
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Four hours lecture.

Introduction to the relationship of law, society and the individual. Institutional analysis of factors underlying the creation, maintenance, and change of legal systems. Theories of jurisprudence and practical problems of law enforcement and the administration of justice.

SOC 19	ALCOHOL & DRUG ABUSE	4 Units
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Four hours lecture.

Introduction to problems of substance abuse. History and classification of alcohol and drug abuse. Equips human service workers and general public with knowledge about issues involved in alcohol and drug abuse. Intervention and rehabilitation programs as well as public policy paradigms are examined.

SOC 20	MAJOR SOCIAL PROBLEMS	4 Units
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Four hours lecture.

Nature and origins of the principal social problems of our time. Consequences of industrialization, rapid technological change, and resultant tensions of changing 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]

SOC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4 Units
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Advisory: Not open to students with credit in PSYC 21 or WMN 21.

Four hours lecture.

Survey of gender issues based upon psychological and sociological theories and research. Examination of sex roles stereotyping and differences. Developmental considerations.

SOC 23	RACE & ETHNIC RELATIONS	4 Units
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Four hours lecture.

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.

SOC 30	SOCIAL PSYCHOLOGY	4 Units	SPAN 3	ELEMENTARY SPANISH	5 Units
Advisory: Not open to students with credit in PSYC 30.			Prerequisite: SPAN 2 or two years of high school Spanish.		
Four hours lecture.			Five hours lecture, two hours laboratory.		
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.			Further development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with focus on greater structural accuracy and communicative competence, and with Spanish as the language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas. [CAN SPAN 4 = SPAN 2+3, CAN SPAN 5, CAN SPAN SEQ A = SPAN 1+2+3]		
SOC 34	HONORS INSTITUTE SEMINAR IN SOCIOLOGY	1 Unit	SPAN 4	INTERMEDIATE SPANISH	5 Units
Prerequisite: Membership in the Honors Institute.			Prerequisite: SPAN 3 or three years of high school Spanish.		
One hour lecture.			Five hours lecture, one hour laboratory.		
A seminar in directed readings, discussions and projects in Sociology. Specific topics to be determined by the instructor.			Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding vocabulary about familiar topics and idiomatic usage. Writing and reading assignments based upon topics discussed in class. [CAN SPAN 7, CAN SPAN SEQ B = SPAN 4+5+6]		
SOC 35	DEPARTMENT HONORS PROJECTS IN SOCIOLOGY	1 Unit	SPAN 5	INTERMEDIATE SPANISH	5 Units
SOC 35X		2 Units	Prerequisite: SPAN 4 or four years of high school Spanish.		
SOC 35Y		3 Units	Five hours lecture, one hour laboratory.		
SOC 35Z		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. [CAN SPAN 9, CAN SPAN SEQ B = SPAN 4+5+6]		
Any combination of SOC 35, 35X, 35Y & 35Z may be taken for a maximum of six units.			SPAN 6	INTERMEDIATE SPANISH	5 Units
One hour lecture for each unit of credit.			Prerequisite: SPAN 5.		
Seminar in sociological readings, research, critical techniques and practice. Specific topics vary.			Five hours lecture, one hour laboratory.		
SOC 36	SPECIAL PROJECTS IN SOCIOLOGY	1 Unit	Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding abstract vocabulary, and idiomatic usage. Writing and reading assignments based upon topics discussed in class. [CAN SPAN 11, CAN SPAN SEQ B = SPAN 4+5+6]		
SOC 36X		2 Units	SPAN 10A	SPANISH FOR HERITAGE SPEAKERS	5 Units
SOC 36Y		3 Units	Prerequisite: SPAN 6.		
SOC 36Z		4 Units	Five hours lecture.		
Any combination of SOC 36, 36X, 36Y & 36Z may be taken for a maximum of six units.			Reading and writing in Spanish, targeted to Spanish speakers. Readings pertinent to the life and culture of Hispanics in the U.S., compositions, exploring both personal and political issues, exams, advanced grammar. Instruction in Spanish.		
One hour lecture for each unit of credit.			SPAN 13A	INTERMEDIATE CONVERSATION I	3 Units
Advanced readings, research and/or project in sociology. Specific topics determined in consultation with instructor.			Prerequisite: SPAN 3.		
SOC 40	ASPECTS OF MARRIAGE & FAMILY	4 Units	Advisory: May be taken concurrently with SPAN 4.		
Four hours lecture.			Three hours lecture, one hour laboratory.		
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.			Review and development of oral and listening communication skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary Spanish as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural and historical issues based on authentic texts, current news broadcasts, and/or films.		
SPANISH					
Language Arts Division			SPAN 13B		
(650) 949-7250			INTERMEDIATE CONVERSATION II		
www.foothill.edu/la/			Prerequisite: SPAN 13A.		
SPAN 1	ELEMENTARY SPANISH	5 Units	Advisory: May be taken concurrently with SPAN 5.		
Five hours lecture, two hours laboratory.			Three hours lecture, one hour laboratory.		
Development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas. [CAN SPAN 1, CAN SPAN 2 = SPAN 1+2, CAN SPAN SEQ A = SPAN 1+2+3]			Continuation of SPAN 13 A. Review and development of oral and listening communication skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary Spanish as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural historical and political issues based on authentic texts, current news broadcasts, and/or films. Develop critical thinking skills by comparing different viewpoints and different values of diverse cultures.		
SPAN 2	ELEMENTARY SPANISH	5 Units			
Prerequisite: SPAN 1 or one year of high school Spanish.					
Five hours lecture, two hours laboratory.					
Further development and practice of elementary speaking, listening, reading and writing skills in everyday language function, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas. [CAN SPAN 2 = SPAN 1+2, CAN SPAN 3, CAN SPAN 4 = SPAN 2+3, CAN SPAN SEQ A = SPAN 1+2+3]					

SPAN 14A ADVANCED CONVERSATION I	3 Units	SPAN 106 INTRODUCTION TO BUSINESS SPANISH	4 Units
Prerequisite: SPAN 13B.		Non-degree applicable credit course.	
Advisory: May be taken concurrently with SPAN 5.		Prerequisite: SPAN 3 or equivalent.	
Three hours lecture, one hour laboratory.		Four hours lecture, one hour laboratory.	
Continuation of SPAN 13B. 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 Spanish-speaking world, including that of the Latino population of the U.S.		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 14B ADVANCED CONVERSATION II	3 Units	SPAN 110 SPANISH LANGUAGE & CULTURE	2.5 Units
Prerequisite: SPAN 14A.		Two and one-half hours lecture, one hour laboratory.	
Advisory: May be taken concurrently with SPAN 6.		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	
Three hours lecture, one hour laboratory.			
Continuation of SPAN 14A. 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.			
SPAN 25A ADVANCED COMPOSITION & READING	4 Units	SPAN 111 PRACTICAL SPANISH	2.5 Units
Prerequisite: SPAN 6.		Advisory: SPAN 110.	
Four hours lecture.		Two and one-half hours lecture, one hour laboratory.	
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.		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.	
SPAN 25B ADVANCED COMPOSITION & READING	4 Units	SPAN 190 DIRECTED STUDY	.5 Unit
Prerequisite: SPAN 25A.		SPAN 190X	1 Unit
Four hours lecture.		SPAN 190Y	1.5 Units
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 190Z	2 Units
		Advisory: Pass/No Pass.	
		Any combination of SPAN 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.	
		One-half hour lecture of individualized instruction for each half unit.	
		For students who desire or require additional help in attaining comprehension and competency in learning skills.	
SPAN 34 HONORS INSTITUTE SEMINAR IN SPANISH	1 Unit	SPECIAL EDUCATION	
Prerequisite: Membership in the Honors Institute.		Adaptive Learning Division	(650) 949-7332 www.foothill.edu/ai/
One hour lecture.			
A seminar in directed readings, discussions, and projects in Spanish. Specific topics to be determined by the instructor.			
SPAN 36 SPECIAL PROJECTS IN SPANISH	1 Unit	SPED 50 INTRODUCTION TO ADAPTIVE FITNESS TECHNIQUES	3 Units
Prerequisite: SPAN 5.		Two hours lecture, three hours laboratory.	
Advisory: Enrollment for this course is available in the Language Arts Division Office.		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.	
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 39 CONTEMPORARY HISPANIC LITERATURE IN TRANSLATION	4 Units	SPED 52 INTERGENERATIONAL ADULT HEALTH & DEVELOPMENT	3 Units
Advisory: Eligibility for ENGL 1A or ESL 26.		May be taken six times for credit.	
Four hours lecture.		Two hours lecture, three hours laboratory.	
Reading and study of selected literature from Spanish-speaking countries, which represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Discussion focuses on specific cultural, social, historical and political aspects as expressed through different literary genres.		An intergenerational approach to healthy aging with an emphasis in the physiological, psychological, and sociological aspects. Application of wellness activities, fitness modalities and health lectures. Hands-on experience with a diverse population, including older adults, veterans and the disabled. An interdisciplinary approach will be emphasized.	
SPED 54 PRINCIPLES OF THERAPEUTIC EXERCISE	4 Units	SPED 54 PRINCIPLES OF THERAPEUTIC EXERCISE	4 Units
Three hours lecture, three hours laboratory.		Three hours lecture, three hours laboratory.	
Designed to provide the fitness professional the basic skills necessary to execute a therapeutic exercise program.			
SPED 55 GERIATRIC FITNESS CONCEPTS	3 Units	SPED 55 GERIATRIC FITNESS CONCEPTS	3 Units
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 67	ADAPTIVE FITNESS DIRECTED STUDY	1 Unit			
			SPED 67X		2 Units			
			SPED 67Y		3 Units			
			Any combination of SPED 67, 67X & 67Y may be taken a maximum of six times for credit.					
			Three hours laboratory for each unit of credit.					
			Designed to provide the 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	SPED 69	SPECIAL EDUCATION STRATEGIES & PRACTICUM	4 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	SPED 70	INTRODUCTION TO AQUA FITNESS PRINCIPLES	3 Units			
			May be taken two times for credit.					
			Two hours lecture.					
			Exploring the field of rehabilitation and special education, including a survey of upper division course work and graduate level degrees. An introduction to the variety of careers working with special populations in a variety of settings, including education, industry and non-profit organizations. Course will include a forum of guest speakers, field practicum and research project.					
SPED 61	INTRODUCTION TO DISABILITIES	4 Units	SPED 71	SPECIAL TOPICS IN THE FIELD OF FITNESS THERAPY	3 Units			
	Advisory: Eligibility for ENGL 1A.		Two hours lecture, three hours laboratory.					
	Four hours lecture.		Designed to provide the Adaptive Fitness Technician student an opportunity to augment skills, experience and knowledge base through additional specialized short course. Practical work experience, directed readings, and/or the viewing of instructional videos will be used to compliment the learning experience. The student will have the opportunity to work to attend highly specialized classes to enhance their knowledge base in the expanding field of Adaptive Fitness. Topics will range from the theory of balance training, adapted aquatics, fitness evaluation, and living topics to any issue that is pertinent to fitness therapy. Special assignments will be offered to provide deeper learning into knowledge base and understanding of fitness therapy topics and medical conditions related to fitness.					
SPED 62	PSYCHOLOGICAL ASPECTS OF DISABILITY	4 Units	SPED 72	STRESS, WELLNESS & COPING STRATEGIES	1.5 Units			
	Four hours lecture.		Advisory: Pass/No Pass.					
	Psychological aspects of disability, including psychosocial, cultural, and physical considerations of disability and illness.		May be repeated three times for credit.					
SPED 63	LEARNING DISABILITIES	4 Units	One and one-half hours laboratory.					
	Four hours lecture.		Explore and become familiar with symptoms of stress, depression, and anxiety. Learn and utilize effective coping strategies to promote personal wellness and model these strategies for members of the community.					
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.							
SPEECH COMMUNICATION								
See Communication Studies								
TRAVEL CAREERS								
Business & Social Sciences Division				(650) 949-7263				
				www.foothill.edu/bss/				
T C 50	INTRODUCTION TO TRAVEL CAREERS	2 Units						
	Two hours lecture, one hour laboratory.							
	Explores the many career choices offered by one of the world's largest industries. Introduction to the special language and dynamics of the travel business.							
T C 51	TOURISM IN NORTH AMERICA	4 Units						
	Four hours lecture, one hour laboratory.							
	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.							

T C 52	TOURIST CENTERS OF EUROPE	4 Units	
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.			
T C 53	GLOBAL TOURISM	4 Units	
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.			
T C 54	SELLING CRUISES	4 Units	
Four hours lecture, one hour laboratory.			
Cruise product orientation for travel career majors. Focus on increasing profits through cruise sales. Exploring cruise itineraries and ports using current brochures and Internet.			
T C 55	SELLING DOMESTIC TRAVEL	4 Units	
Four hours lecture, one hour laboratory.			
Student participation within a simulated travel agency. Using industry reference materials to plan domestic itineraries.			
T C 56	SELLING FOREIGN INDEPENDENT TOURS	4 Units	
Four hours lecture, one hour laboratory.			
Advanced office procedures. Emphasis upon complex travel problems and the preparation of worldwide itineraries.			
T C 58	SELLING GROUP TRAVEL	4 Units	
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.			
T C 59	TRAVEL SALES TECHNIQUES	3 Units	
Three hours lecture, one hour laboratory.			
Dynamics of selling the travel product from qualifying the client to closing the sale.			
T C 60	TRAVEL ONLINE	1 Unit	
Two hours lecture-laboratory, two hours laboratory.			
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.			
T C 62A	CREATING TRAVEL RESERVATIONS: BASIC	2 Units	
Four hours lecture-laboratory, two hours laboratory.			
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.			
T C 62B	CREATING TRAVEL RESERVATIONS: ADVANCED	2 Units	
Advisory: T C 62A.			
Four hours lecture-laboratory, two hours laboratory.			
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.			
T C 64	AIR TICKETING: NORTH AMERICA	3 Units	
Two hours lecture, one hour lecture-laboratory, three hours laboratory.			
Introduction to the various domestic airline fares and rules. Instruction offered in the Travel Careers Computer Training Center.			
T C 65	AIR TICKETING: INTERNATIONAL	3 Units	
Two hours lecture, one hour lecture-laboratory, three hours laboratory.			
Employing international airline rules, the mileage principle, Neutral Units of Construction, and consolidator fares in planning worldwide air itineraries. Instruction offered in the Travel Careers Computer Training Center.			
T C 67	BUSINESS TRAVEL RESERVATIONS	2 Units	
Advisory: T C 62B.			
Four hours lecture-laboratory, two hours laboratory.			
Intensive use of the SABRE system and Internet. Developing speed and accuracy in creating business travel reservations for both domestic and international destinations. Instruction offered in the Travel Careers Computer Training Center.			
T C 68	LEISURE TRAVEL RESERVATIONS	2 Units	
Advisory: TC 54 and 62B.			
Four hours lecture-laboratory, two hours laboratory.			
Using the Internet and SABRE formats to create leisure itineraries. Practice with sales techniques. Instruction offered in the Travel Careers Computer Training Center.			
T C 70	SPECIAL WORLDWIDE DESTINATIONS	4 Units	
Four hours 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.			
T C 74	TOUR DIRECTING	3 Units	
Three hours lecture, one hour laboratory.			
Preparation for leading and managing both domestic and international tour groups. Opportunity to participate in a local motorcoach tour.			
T C 75	OPERATING WHOLESALE TOURS	3 Units	
Advisory: T C 58.			
Three hours lecture, one hour laboratory.			
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	
Two hours lecture, one hour laboratory.			
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 79A	TOURISM SEMINAR SERIES: SALES & SERVICE	.5 Unit	
May be taken six times for credit.			
One six-hour lecture.			
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 79B	TOURISM SEMINAR SERIES: HIGH-TECH TRAVEL	.5 Unit	
May be taken six times for credit.			
One six-hour lecture.			
Using cutting-edge technology to enhance the travel professional's expertise in selling the world.			
T C 79C	TOURISM SEMINAR SERIES: PROFESSIONAL DEVELOPMENT	.5 Unit	
Advisory: Pass/No Pass.			
May be taken six times for credit.			
One six-hour lecture.			
Exploring current topics and trends within the travel industry to enhance the professional's expertise and ability to compete in today's global village.			
T C 79D	TOURISM SEMINAR SERIES: DESTINATIONS IN DEPTH	.5 Unit	
May be taken six times for credit.			
One six-hour lecture.			
Exploring one area of the world to enhance the travel professional's expertise in selling the product.			

T C 79E	TOURISM SEMINAR SERIES: MARKETING THE TRAVEL PRODUCT	.5 Unit	T C 82D	DESTINATION SPECIALIST SERIES: SOUTH PACIFIC	2 Units
Advisory: Pass/No Pass. May be taken six times for credit. One six-hour lecture.	Relevant topics to enhance the travel professional's expertise. Exploring unique opportunities to increase profits and build market share.		Two hours lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, political, and cultural features of Australia, New Zealand, and various islands in Micronesia, Melanesia, and Polynesia, highlighting major tourism areas. Emphasis on professional sales techniques.	
T C 81A	DESTINATION SPECIALIST SERIES: CHINA	1 Unit	T C 82E	DESTINATION SPECIALIST SERIES: SOUTHERN EUROPE	2 Units
One hour lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of China. Emphasis on professional sales techniques, qualifying the client and useful industry resources.		Two hours lecture, one hour laboratory.	Destination Specialist course from The Travel Institute. In-depth study of geographical, historical, political, and cultural features of various countries in Southern Europe, highlighting major tourism areas. Emphasis on professional sales techniques, suggested itineraries, and useful industry resources.	
T C 81B	DESTINATION SPECIALIST SERIES: HAWAII	1 Unit	T C 83A	DESTINATION SPECIALIST SERIES: AFRICA	3 Units
One hour lecture, one hour laboratory.	Destination Specialist 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.		Three hours lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of southern, eastern and northern Africa highlighting major tourism areas. Emphasis on professional sales techniques, qualifying the client and useful industry resources.	
T C 81C	DESTINATION SPECIALIST SERIES: ALASKA	1 Unit	T C 83B	DESTINATION SPECIALIST SERIES: LATIN AMERICA	3 Units
One hour lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geography and cultural features of Alaska, highlighting major tourism areas. Emphasis on professional sales strategies, suggested land and cruise itineraries, and useful industry resources.		Three hours lecture, one hour laboratory.	Destination Specialist Program from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of Latin America, highlighting major tourism areas. Emphasis on professional sales techniques, qualifying the client and useful industry resources.	
T C 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 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.		Three hours lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of the United States and Canada, highlighting major tourism areas. Emphasis on professional sales techniques, qualifying the client and useful industry resources.	
T C 81F	DESTINATION SPECIALIST SERIES: FRANCE	1 Unit	T C 83E	DESTINATION SPECIALIST: NORTHERN & CENTRAL EUROPE	3 Units
One hour lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. In-depth study of geographical, historical, political, and cultural features of France, highlighting major tourism areas. Emphasis on professional sales strategies and techniques, suggested itineraries, and useful industry resources.		Three hours lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. In-depth study of geographical, historical, political and cultural features of various countries in Northern and Central Europe, highlighting major tourism areas. Emphasis on professional sales techniques, suggested itineraries and useful industry resources.	
T C 81M	DESTINATION SPECIALIST SERIES: MEXICO	1 Unit	T C 92	TRAVEL CAREERS TUTOR TRAINING	1 Unit
One hour lecture, one hour laboratory.	Destination Specialist course from The Travel Institute. In-depth study of geographical, historical, political, and cultural features of Mexico, highlighting major tourism areas. Emphasis on professional sales strategies and techniques, suggested itineraries, and useful industry resources.		T C 92X		2 Units
T C 82A	DESTINATION SPECIALIST SERIES: CARIBBEAN	2 Units	T C 92Y		3 Units
Two hours lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of the Caribbean, highlighting major tourism areas. Emphasis on professional sales techniques.		Prerequisite: Permission of program coordinator. Advisory: Pass/No Pass. Any combination of T C 92, 92X & 92Y may be taken for a maximum of six units. Three hours laboratory. Practice in individual tutoring under instructional supervision.		
T C 82B	DESTINATION SPECIALIST SERIES: EAST ASIA	2 Units	T C 100	OPEN COMPUTER LABORATORY	.5 Unit
Two hours lecture, one hour laboratory.	Destination Specialist course from the Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of East Asia, highlighting major tourism areas. Emphasis on professional sales techniques.		T C 100X		1 Unit
			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. Any combination of T C 100, 100X, 100Y & 100Z may be taken a maximum of six times for credit. One and one-half hours laboratory for each half unit of credit. Practice sessions in the Travel Careers Computer Training Center and the BSS Social Sciences Lab to help students gain expertise on the SABRE system and gain exposure to travel-related software, the Internet, and travel industry videotapes.		

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.

Any combination of T C 190, 190X, 190Y & 190Z may be taken a maximum of six times for credit.

One-half hour lecture, one and one-half hours laboratory.

For 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
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Advisory: Pass/No Pass.

May be taken six times for credit.

One hour lecture-laboratory.

A series of three-hour lectures, lecture-demonstrations, multimedia presentations, live demonstrations or hands-on workshops presented once monthly (three times per quarter) by the instructor, professionals in veterinary medicine or the animal health-related fields. A variety of content is presented in order to provide current topical and practical information in the animal care field. Guest presenters will include veterinarians, specialists, veterinary technicians, animal handlers, administrative professionals and educators. All veterinary technology students are required to enroll each quarter, but the seminar may be taken by any student for personal interest. Unregistered veterinary assistants, and other members of the veterinary paraprofessional staff may also enroll.

V T 51	INTRODUCTION TO VETERINARY TECHNOLOGY	1.5 Units
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One hour lecture, two hours lecture-laboratory.

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.

V T 52A	VETERINARY ASSISTING I	5 Units
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Five hours lecture.

First in a two-course series in the theory and practice of Veterinary Assisting focusing on the knowledge, skills, and attitudes required for competent paraprofessional support to the Veterinarian (DVM) and to the Registered Veterinary Technician (RVT.) You will prepare for an exciting new career as a veterinary assistant by learning the essential knowledge and hands-on skills of the Veterinary Assistant. Emphasis is on the practical aspects of front office management, working as part of the veterinary health care team, basic animal care, and basic aspects of patient management under direct supervision. The course is entirely online and may be taken as a stand-alone class or may be combined with VT52B and a Clinical Preceptorship (VT87A & B) to earn a Veterinary Assisting Program Certificate of Completion.

V T 52B	VETERINARY ASSISTING II	5 Units
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Five hours lecture.

Second in a two-course series in the theory and practice of Veterinary Assisting focusing on the knowledge, skills, and attitudes required for competent paraprofessional support to the Veterinarian (DVM) and to the Registered Veterinary Technician (RVT.) You will prepare for an exciting new career as a veterinary assistant by learning the essential knowledge and hands-on skills of the Veterinary Assistant. Emphasis is on basic clinical skills and common procedures. Assisting with routine exam room, treatment room; clinical laboratory and radiologic procedures; administration of medication, animal grooming, instrument cleaning and care; surgical preparation and operating room assisting; patient recordkeeping and client communication. The course is entirely online and may be taken as a stand-alone class or may be combined with VT 52A and a Clinical Preceptorship (VT 88A & B) to earn a Veterinary Assisting Program Certificate of Completion.

V T 53A	MEDICAL TERMINOLOGY	1 Unit
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Two hours lecture-laboratory.

A guided self-study of medical terminology as a fundamental communication skill. Basic word parts and rules of word construction. A review of common medical terms pertaining to the different body systems, with emphasis on those terms peculiar to veterinary medicine.

V T 53B	MEDICAL CALCULATIONS	1 Unit
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Two hours lecture-laboratory.

Applied mathematics as a fundamental communication and technical skill. Review of calculations involving fractions, decimals, ratios and proportions, unit conversions, and algebraic equations. Clinical medical calculations utilized in preparation and administration of drugs, dosage determinations, intravenous fluid infusion, and prescription dispensing.

V T 53C	INTRODUCTION TO LARGE ANIMAL CARE	1 Unit
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Two hours lecture-laboratory, one hour case study.

Introduction to principles of husbandry and medical care of common domestic large animal species. Breed identification; housing and restraint; nutrition and feeding; common infectious diseases and vaccinations; equine physical exam and common lameness; equine colic; common large animal clinical procedures.

V T 55	ANIMAL MANAGEMENT & CLINICAL SKILLS I	4 Units
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Three hours lecture, three hours laboratory, one hour internet research, two hours open skills laboratory.

Intended for the pre-clinical training of veterinary technology students and unregistered veterinary assistants. Orientation to the Veterinary Technology Program. Occupational health and safety. Animal handling and restraint. Administration of medication. Assessing dehydration and basic fluid administration. Introduction to anesthetic equipment, procedures and recovery. Principles of aseptic technique, sanitation, disinfection and sterilization. Principles of surgical nursing and instrumentation. Euthanasia, grief and pet loss support. Principles of animal behavior, socialization, basic obedience and common behavior problems. Wound healing and suture material.

V T 56	ANIMAL MANAGEMENT & CLINICAL SKILLS II	4 Units
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Three hours lecture, three hours laboratory, one hour internet research, two hours open skills laboratory.

Intended for the pre-clinical training of veterinary technology students and unregistered veterinary assistants. Survey of basic responsibilities and technical duties of veterinary technicians. Clinical nutrition and feeding of the dog and cat. Reproductive anatomy and physiology of the dog and cat including common reproductive disorders. Companion animal grooming. First aid. Instruction and practical experience in the basic principles and techniques of radiography, electrocardiography; venipuncture and blood collection technique; insertion and troubleshooting of intravenous catheters. Patient examination and assessment. Bandaging, casting, and splinting. Hands-on experience performing and assisting with routine clinical diagnostic and therapeutic procedures, including dermatologic and ophthalmologic procedures, blood and urine collection and other routine veterinary clinical procedures.

V T 60	VETERINARY OFFICE PRACTICE	2 Units
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Two hours lecture, one hour case study.

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 61	ANIMAL DISEASES	5 Units
Four hours lecture, two hours lecture-laboratory, one hour internet research.		
	Advanced study of the common diseases of domestic animals with emphasis on the dog and cat for the veterinary technician student. Practical medical microbiology, clinical immunology. Mechanisms of disease; the host-parasite relationship and adaptive and maladaptive responses of the host. Etiology, pathogenesis, clinical signs and clinical management of selected immunological, viral, bacterial, fungal, and parasitic diseases. Principles of vaccination, disease prevention, and zoonosis. Diagnostic techniques, including gross and microscopic identification of common veterinary pathogens.	
V T 70	FUNDAMENTALS OF VETERINARY DIAGNOSTIC IMAGING	4 Units
Three hours lecture, three hours laboratory, one hour internet research.		
	Introduction to the principles of veterinary radiography for veterinary technician students, including radiographic terminology, physics of X-ray production and interaction with matter, occupational safety and radiation protection, radiographic exposure factors and patient positioning required for production of diagnostic films, processing of radiographic film. Discussion of equipment materials and special radiographic studies common in veterinary practice. Introduction to state-of-the-art radiographic imaging, ultrasound and nuclear medicine.	
V T 72	PRINCIPLES OF VETERINARY DENTISTRY	2 Units
One hour lecture, two hours lecture-laboratory.		
	Basic principles of veterinary dentistry for the veterinary technology student. Includes dental anatomy, physiology, pathophysiology, charting and instrumentation. Techniques of routine prophylaxis, discussion of periodontal disease, modes of therapy and prevention. Introduction to common dental disorders, endodontic technique, simple extractions and dental radiography. Course includes hands-on laboratory sessions using veterinary dental equipment and models, and includes the care and use of common instruments and equipment, the routine prophylaxis and dental assisting.	
V T 75A	ANIMAL CARE SKILLS	1 Unit
Three hours laboratory.		
	Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology program. Opportunity to participate in the health care team involved in the care, management and husbandry of program livestock, companion animals and laboratory animals. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties.	
V T 75B	ANIMAL CARE SKILLS	1 Unit
Three hours laboratory.		
	Continuation of VT 75A. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology classroom. Opportunity to participate in the health care team involved in the care, management and husbandry of livestock, companion animals and laboratory animals. 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, 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, 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, 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 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, 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 88A	CLINICAL PRECEPTORSHIP I	1.5 Units	
Corequisite: V T 52A.			
Seven and one-half hours clinic.			
Formal, structured off-campus clinical experience in licensed veterinary facilities, which serve as a means of instructing the student in practical, hands-on, clinical skills in all aspects of veterinary assisting. The student is under the direct supervision of one or more licensed veterinarians and/or credentialed veterinary technicians. The site of the preceptorship is approved by the veterinary technology program in consultation with the student and the veterinary professionals. Opportunity for learning and practical application of the knowledge, skills and attitudes required of a veterinary assistant. Exposure to varied methodologies and practice philosophies in a variety of clinical settings. Emphasis is on the role of the veterinary assistant in the veterinary health care team.			
V T 88B	CLINICAL PRECEPTORSHIP II	1.5 Units	
Corequisite: V T 52B.			
Seven and one-half hours clinic.			
Formal, structured off-campus clinical experience in licensed veterinary facilities, which serve as a means of instructing the student in practical, hands-on, clinical skills in all aspects of veterinary assisting. The student is under the direct supervision of one or more licensed veterinarians and/or credentialed veterinary technicians. The site of the preceptorship is approved by the veterinary technology program in consultation with the student and the veterinary professionals. Opportunity for learning and practical application of the knowledge, skills and attitudes required of a veterinary assistant. Exposure to varied methodologies and practice philosophies in a variety of clinical settings. Emphasis is on the role of the veterinary assistant in the veterinary health care team.			
V T 89	CLINICAL INTERNSHIP	3 Units	
15 hours laboratory.			
Off-campus clinical experience for Veterinary Technology Program students in veterinary facilities. Opportunity for practical application of knowledge, skills and abilities acquired in program course work. Opportunity for additional hands-on training in all aspects of veterinary technology. Exposure to varied methodologies and practice philosophies in a variety of clinical settings.			
V T 91	CLINICAL INTERNSHIP	3 Units	
15 hours laboratory.			
Off-campus clinical experience for Veterinary Technology Program students in veterinary facilities. Opportunity for practical application of knowledge, skills and abilities acquired in program course work. Opportunity for additional hands-on training in all aspects of veterinary technology. Exposure to varied methodologies and practice philosophies in a variety of clinical settings.			
V T 92	CLINICAL INTERNSHIP	3 Units	
15 hours laboratory.			
Off-campus clinical experience for Veterinary Technology Program students in veterinary facilities. Opportunity for practical application of knowledge, skills and abilities acquired in program course work. Opportunity for additional hands-on training in all aspects of veterinary technology. Exposure to varied methodologies and practice philosophies in a variety of clinical settings.			
V T 93	CLINICAL INTERNSHIP	4 Units	
20 hours laboratory.			
Off-campus clinical experience for Veterinary Technology Program students in veterinary facilities. Opportunity for practical application of knowledge, skills and abilities acquired in program course work. Opportunity for additional hands-on training in all aspects of veterinary technology. Exposure to varied methodologies and practice philosophies in a variety of clinical settings.			
V T 95	VETERINARY TECHNICIAN PROFICIENCY	2 Units	
Two hours lecture, one hour group study.			
Review of pertinent subject matter in preparation for the California State 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	
Non-degree applicable credit course.			
Prerequisite: Completion of grade ten and recommendation of high school principal.			
Two hours lecture-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.			
V T 190	DIRECTED STUDY	.5 Unit	
V T 190X		1 Unit	
V T 190Y		1.5 Units	
Advisory: Pass/No Pass.			
Any combination of V T 190, 190X & 190Z may be taken a maximum of six times for credit.			
One-half hour lecture, one and one-half hour laboratory for each half unit of credit.			
For students in the Veterinary Technology Program who desire or require additional help in attaining comprehension and proficiency in learning skills and/or additional practical training to achieve technical skills competency.			
VIDEO ARTS			
Fine Arts & Communication Division			
			(650) 949-7562
			www.foothill.edu/fa/
VART 1	INTRODUCTION TO FILM STUDIES	4 Units	
Formerly: F TV 1			
Four hours lecture, one hour laboratory.			
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	
Formerly: F TV 2A			
Four hours lecture, one hour laboratory.			
Survey of the development of motion pictures from beginning to the 1940s. Emphasis on understanding evolution of international film-making.			
VART 2B	HISTORY OF FILM 1945-CURRENT	4 Units	
Formerly: F TV 2B			
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 50	CAREERS IN THE VISUAL ARTS	2 Units	
<i>Formerly: F TV 2C</i>		<i>Advisory: Not open to students with credit in GID 60.</i>				
Four hour lecture, one hour laboratory.		Two hours lecture.				
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.		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 3	AMERICAN CINEMA	4 Units	VART 60	CAREERS IN THE VIDEO ARTS	2 Units	
<i>Formerly: F TV 3</i>		<i>Two hours lecture.</i>				
Four hours lecture, one hour laboratory.		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.				
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.						
VART 5B	PLAYWRITING	4 Units	VART 80	SPECIAL PROJECTS IN VIDEO	1 Unit	
<i>Advisory: Not open to students with credit in DRAM 5B or CRWR 36B.</i>		<i>2 Units</i>				
Four hours lecture, one hour laboratory.		<i>4 Units</i>				
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.		<i>Formerly: F TV 80</i>				
		Any combination of VART 80, 80X & 80Y may be taken for a maximum of 24 units.				
VART 6	ADVANCED PLAYWRITING	4 Units	Three hours laboratory for each unit of credit.			
<i>Prerequisite: DRAMA 5B, CRWR 36A, VART 5B.</i>		Individual projects in creative, technical or applied work in television or film by arrangement with the instructor. A limited area is explored at length.				
<i>Advisory: Not open to students with credit in DRAM 6.</i>						
May be taken six times for credit.						
Four hours lecture, one hour laboratory.						
Writing for the stage. Advanced examination and practice of story structure, character development, dialogue crafting, with an emphasis on understanding the unique visual and imaginative nature of writing for the theatre.		VART 81B				
		RECORDING ARTS II: AUDIO FOR VIDEO				
<i>Formerly: F TV 81B</i>		4 Units				
<i>Advisory: Not open to students in MUS 81B.</i>		<i>Two hours lecture, three hours lecture-laboratory, three hours laboratory.</i>				
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 15	VIDEO & STREAMING MEDIA TECHNOLOGIES	4 Units	VART 84	DIGITAL VIDEO EDITING I	4 Units	
Two hours lecture, three hours lecture-laboratory.		<i>Formerly: F TV 84</i>				
In this course students will achieve a mastery of streaming and multimedia technologies through the generation of digital sound, video, and animation files in a variety of forms for class critique and portfolio presentation.		<i>Prerequisite: Must demonstrate basic computer proficiency.</i>				
<i>Two and one-half hours lecture, three hours lecture-laboratory, one hour laboratory.</i>		<i>Two and one-half hours lecture, three hours lecture-laboratory, three hours laboratory.</i>				
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.		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 20	DIGITAL VIDEO PRODUCTION I	4 Units	VART 85	DIGITAL VIDEO EDITING II	4 Units	
<i>Formerly: F TV 20</i>		<i>Formerly: F TV 85</i>				
<i>Advisory: Not open to students with credit in GID 20.</i>		<i>Prerequisite: VART 84 or 86.</i>				
Two and one-half hours lecture, three hours lecture-laboratory, one hour laboratory.		<i>May be taken three times for credit.</i>				
Two and one-half hours lecture, three hours lecture-laboratory, two hours laboratory.		<i>Two and one-half hours lecture, three hours lecture-laboratory, three hours laboratory.</i>				
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.		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 21	DIGITAL VIDEO PRODUCTION II	4 Units	VART 86	INTRODUCTION TO DIGITAL SOUND, VIDEO & ANIMATION	4 Units	
<i>Formerly: F TV 21</i>		<i>Formerly: F TV 86</i>				
<i>Prerequisite: VART 20.</i>		<i>Advisory: Not open to students with credit in ART 88, DRAM 86, MUS 86, GID 80.</i>				
May be taken three times for credit.		Two hours lecture, two hours lecture-laboratory, three hours laboratory.				
Two and one-half hours lecture, three hours lecture-laboratory, two 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 25	LIGHTING FOR DIGITAL VIDEO & FILM	4 Units	VART 87	MOTION GRAPHICS	4 Units	
<i>Advisory: VART 20 or PHOT 5.</i>		<i>Formerly: ART 88 or DRAM 86 or GID 80 or MUS 86 or VART 86. Not open to students with credit in GID 84.</i>				
Two and one-half hours lecture, three hours lecture-laboratory.		Two hours lecture, two hours lecture-laboratory, three hours laboratory.				
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.		Basic instruction using the computer for motion graphic design and composite digital video production. Emphasis on time based media and its application to creative problem solving and communication solutions.				

VART 89 INTRODUCTION TO THE MAYA 3D SYSTEM 4 Units

Prerequisite: Must demonstrate computer proficiency.

Two hours lecture, three hours lecture-laboratory, two hours laboratory.

An introduction to the Maya 3D authoring program and the concepts of 3D digital art production. An overview of each aspect of 3D production including modeling, texturing, lighting, animation, and rendering.

VART 150 VIDEO ARTS LABORATORY .5 Unit

VART 150X 1 Unit

VART 150Y 1.5 Units

VART 150Z 2 Units

Any combination of VART 150, 150X, 150Y & 150Z may be taken for a maximum of 12 units.

One and one-half hours laboratory for each half unit of credit.

Supervised activities in Video Arts, related to skills and materials of Film and Video production and study in Video Arts courses in which students are currently enrolled.

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

May be taken six times for credit.

One hour lecture.

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

Any combination of WMN 36, 36X, 36Y & 36Z may be taken for a maximum of six units.

One hour lecture for each unit of credit.

Advanced readings, research and/or project in 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 4BS,T	Intermediate Drawing	BIOL 191,X-Z	Writing/Communication Across the Curriculum for Biology & Health
ACAD 107	Writing for Public Service Agencies	ART 4CS,T	Advanced Drawing	BIOL 192	Community Service Learning Across the Curriculum for Biological & Health Sciences
ACAD 109	Notetaking Skills	ART 4DS,T	Figure Drawing		
ACAD 111	Summary Writing	ART 5AS,T	Basic Two-Dimensional Design		
ACAD 150	Vocabulary Development	ART 6S,T	Composition	BIS 95E	Small Business Export & Import
ACAD 151	Sentence & Punctuation Skills	ART 9S,T	Materials & Media	BIS 53	Survey of International Business
ACAD 167Y,Z	Standardized Test Preparation for Youth English	ART 15L	Design Laboratory	BIS 58	Survey of International Marketing
ALAP 104	Adaptive Fitness Internship	ART 19AS,T	Painting	BUSI 97E	Transition to Supervisor
ALAP 105,X	Adaptive Fitness Directed Study	ART 19BS,T	Painting	BUSI 91L	Introduction to Business Information Processing
ALCA 50A,B,C	Introduction to the Computer	ART 19CS,T	Painting	BUSI 97D	Basic Management & Supervision
ALCA 101	Computer Access Evaluation	ART 20AS,T	Color	BUSI 97F	Employee Motivation
ALCA 102	Computer Keyboarding Skills for the Disabled	ART 20BS,T	Color	BUSI 97G	Employee Communication
ALPS 104,X,Y	Post Traumatic Disability Training	ART 34	Honors Institute Seminar in Art	BUSI 97H	Employee Training & Discipline
ALPS 163,X	Facial Exercises for the Acquired Brain Injury Student	ART 37AS,T	Beginning Etching	BUSI 97I	Productive Interviews
ALPS 164,X	Speech/Language Skills for the Nonfluent ABI Student	ART 37BS,T	Intermediate Etching	BUSI 97J	Time Management
ALPS 167,X,Y	Cognitive Reorganization Skills for ABI Students	ART 37CS,T	Advanced Etching	BUSI 97K	Performance Appraisal
ALPS 174,X	Upper Extremity Exercises for the Acquired Brain Injury Student	ART 38A	Beginning Lithography	BUSI 97L	Art of Leadership
ALPS 176,X	Functional Skills of Daily Living for the Acquired Brain Injury Student	ART 38B	Intermediate Lithography	BUSI 97M	Effective Management Planning
ALPS 184,X	Basic Ambulation Skills for the ABI Student	ART 38C	Advanced Lithography	BUSI 97P	Dynamics of Marketing
ALPS 187,X	Functional Mobility Skills	ART 38L	Lithography Laboratory	BUSI 97Q	Effective Marketing Planning
ALTW 220	Banking for the Disabled Student	ART 39AS,T	Beginning Screen Printing	BUSI 97R	Successful Product Strategy
ALTW 221	Human Relationships for the Disabled Student	ART 39BS,T	Intermediate Screen Printing	BUSI 97S	Pricing for Profit
ALTW 222	Independent Living Skills for the Disabled Student	ART 39CS,T	Advanced Screen Printing	BUSI 97T	Dynamics of Distribution
ALTW 223	Consumer Purchasing Skills for the Disabled Student	ART 45AS,T	Beginning Ceramics	BUSI 97U	Successful Product Promotion
ALTW 224	Human Reproduction for the Disabled Student	ART 45BS	Intermediate Ceramics	BUSI 97V	Stress Management
ALTW 225	Nutrition & Health Practices for the Disabled Student	ART 47S,T	Watercolor	BUSI 97W	Practicing Management Skills: Ethics & Change
ALTW 226	Home Management for the Disabled Student	ART 54	Anatomy for Artists	BUSI 150,X-Z	Business Computer Laboratory
ART 4ES,T	Portrait Drawing	ART 56S	Introduction to Computer Graphics	CHEM 8A,B	Introduction to Organic Chemistry
ART 4AS,T	Introduction to Drawing	ART 57	Computer Graphics Applications	CHIN 1-3	Elementary Chinese
		ART 65L	History of Women in Art Laboratory	CHIN 4-6	Intermediate Chinese
		ART 67	Italian Art	CHIN 101-105	Chinese for International Business
		ART 69S,T	Introduction to Printmaking	CHLD 68S	Topics/Projects in Child Development
		ART 96,T	Books as Art	CHLD 71S	Planning Creative Art Activities for Children
		BIOL 16	Ornithology		
		BIOL 20	Environmental Science		
		BIOL 22	Biology of Human Reproduction		
		BIOL 33A	Cell Biology Seminar		
		BIOL 33B	Anatomy & Physiology Seminar		
		BIOL 33C	Population Biology Seminar		
		BIOL 33D	Molecular Genetics Seminar		
		BIOL 170	Marine Mammals for Youth	CIS 51CT	Supervised Field Experience
					Workplace Principles & Practices

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2006-2007

CIS 68B1	Linux & UNIX Shell Programming	CWE 52,X-Z,ZS	Occupational Work Experience: Alternate	ENGL 28	Survey of the Literature of Jane Austen
CIS 68B2	Advanced UNIX Scripting	CWE 60T,V,W-Z	Occupational Work Experience: Apprentice	ENGL 29	Mystery & Detective Fiction
CIS 185	C++ Programming for ATYP	CWE 71,W,X	General Work Experience: Alternate	ENGL 32S,T	Irish Literature
CIS 186	Java Programming for ATYP	DRAM 2E	Introduction to Dramatic Literature	ENGL 35S,T	Department Honors Projects in English
CNET 95E	Cable Plant Engineering & Design	DRAM 1S,T	Theatre Arts Appreciation	ENGL 42AS,T	Introduction to Dramatic Literature
CNET 53	Principles of Data Communication Protocols	DRAM 2AS,T	Introduction to Dramatic Literature	ENGL 42BS,T	Introduction to Dramatic Literature
CNET 54	Systems Network Architecture	DRAM 2BS,T	Introduction to Dramatic Literature	ENGL 42CS,T	Introduction to Dramatic Literature
CNET 59	Transmission Control Protocol/ Internet Protocol (TCP/IP)	DRAM 2CS,T	Introduction to Dramatic Literature	ENGL 43	Major American Writers
CNET 61	Wide Area Networking	DRAM 2D	Introduction to Dramatic Literature	ENGL 45	Major European Writers
CNET 68	Principles of Network Analysis & Design	DRAM 2F	Introduction to Dramatic Literature	ENGL 47	Major British Writers
CNET 95B	Frame Support & Hardware	DRAM 35S	Department Honors Projects in Drama	ENGL 49	California Literature
CNET 95C	Fundamentals of Fiber Optics	DRAM 49S	Rehearsal & Performance	ENGL 52	Analytical Reading
CNET 95D	Codes, Specifications & Safety	DRAM 53S,T	Auditioning for Theatre	ENGL 100S	Introduction to College Reading
CNET 95F	Fiber Optics Installation, Testing & Troubleshooting	DRAM 58S,T	Gesture & Movement for the Actor	ENGL 108S	Reading & Writing on Special Topics
CNSL 390	Leadership Service Directed Study	DRAM 59T	Dialects & Theatre Speech	ENGL 108T	Reading & Writing on Special Topics
COIN 60	HTML Web Publishing I	DRAM 61S,T	The Theatre Live On-Stage	ENGL 110S,T	Introduction to College Writing
COIN 62	HTML Web Publishing II	DRAM 62S,T	Acting for Film & Television	ENGL 156	Writing College Transfer Essays
COIN 64	HTML Web Publishing III (Dynamic)	DRAM 86	Introduction to Digital Sound, Video & Animation	ENGL 207S	Speed Reading & Research Strategies for Youth Program
COIN 70	Javascript (Ecmascript)	DRAM 90Y	Drama/Music Festival Production	ENGL 210S	Basic Writing Skills for ATYP
COMM 65	Survey of Oral Communication	DRAM 96,X-Z	Advanced Vocal Techniques for the Theatre	ENGR 5	Engineering Applications Programming
COMM 101A	Public Speaking for ATYP	DRAM 98,X-Z	Advanced Stage Movement Techniques	ESL 175	Oral Communication Skills III
COMM 104	Group Discussion for ATYP	DRAM 120A-C	Principles of Acting for Youth	FLAN 61	Intercultural Language Application
CRLP 70S,T	Self-Assessment	DRAM 349,Y	Theatre Production Assistant	FREN 1,3T	Elementary French
CRLP 71S,T	Exploring Career Fields	DRAM 380	Musical Theatre Assistance	FREN 4-6	Intermediate French
CRLP 72S	Interviewing for Career Information	EMTP 100	Mobile Intensive Care Program: Theory	FREN 30	French Pronunciation
CRLP 73S	Effective Resume Writing	EMTP 103	Mobile Intensive Care Program: Field Internship Phase	FREN 50A,B	Practical French
CRLP 74S	Successful Interviewing Techniques	ENGL 9	Short Story	FREN 110	Everyday French 1: A Communicative Approach
CRWR 36A	Writing for the Performing Arts: An Internet Course	ENGL 10	Introduction to the Novel	FREN 111	Everyday French 2: A Communicative Approach
CRWR 39AS,T	Introduction to Short Story Writing	ENGL 11S,T	Introduction to Poetry	FREN 101-105	French for International Business
CRWR 39BS,T	Short Creative Writing: Short Story	ENGL 16	Introduction to Literary Study	GEOG 56	Introduction to Spatial Analysis
CRWR 65	Magazine Staff	ENGL 17S,T	Introduction to Shakespeare	GEOG 91	California's Whitewater Geography
CRWR 106S	Introduction to Creative Writing	ENGL 18S,T	Introduction to Myth in Literature	GEOG 92	California's Whitewater Geography Field Study
CRWR 137	Introduction to Creative Writing: Film	ENGL 20	American Nature Writing	GEOL 45E	Excursions in Geology: North Coast, Point Reyes National Seashore & San Andreas Fault Zone
CRWR 160A	Introduction to Creative Writing for Youth Program	ENGL 24	Literature of AIDS		

GEOL 45A	Excursions in Geology: Lassen Volcanic National Park	H P 53A HEBR 1-3	Beginning Table Tennis Elementary Hebrew	MATH 135,X,Y	Problem Solving for Mathematics Contests
GEOL 45B	Excursions in Geology: Yosemite National Park	HIST 12	Economic History of Western Civilization	MATH 156	Essential Decision Skills
GEOL 45C	Excursions in Geology: Hollister & Pinnacles National Monument	HIST 14 HLTH 75	Chicano History Cardiopulmonary Resuscitation	MATH 167,X-Z	Standardized Test Preparation: Mathematics
GEOL 45D	Excursions in Geology: Owens Valley & Eastern Sierras	HLTH 190,X-Z ITAL 1-3	Directed Study Elementary Italian	MATH 195	Advanced Problem Solving for High School Mathematics Contests
GEOL 49A	Geologic Expeditions: Death Valley & Colorado Plateau	ITAL 61,S ITAL 190X	Practical Italian Directed Study	MATH 200A	Structure of Arithmetic: Whole Numbers, Integers, Algebraic Expressions
GERM 1-3	Elementary German	JAPN 1-3	Elementary Japanese	MATH 200B	Structure of Arithmetic: Fractions
GERM 4-6	Intermediate German	JAPN 4-6	Intermediate Japanese	MATH 200C	Structure of Arithmetic: Decimals, Ratios & Proportions
GERM 30	German Pronunciation	JAPN 50A-F	Japanese Cultural Seminar	MATH 200D	Structure of Arithmetic: Percent
GERM 60	Topics in Applied Foreign Language	JAPN 80	Introduction to Japanese Tutor Training	MUS 2E	Women in Music History
GERM 101-105	German for International Business	JAPN 100S,T JAPN 150	Elementary Japanese for ATYP Japanese Cultural Seminar for ATYP	MUS 1S,T MUS 2AL	Introduction to Music
GRDS 20	Video Production I	JAPN 101-105	Japanese for International Business	MUS 4A,B	Music History Laboratory
GRDS 35,X-Z	Honors Projects in Graphic Design	KORE 100 L A 150,X,Y	Korean SAT II Preparation Language Arts Laboratory	MUS 4C	Intermediate Music Theory, Literature & Composition
GRDS 37A	Beginning Etching	L A 191,Y,Z	Writing/Communication Across the Curriculum for Language Arts	MUS 5	Counterpoint
GRDS 37L	Etching Laboratory	LATN 1-3	Elementary Latin	MUS 27S,T	Symphony & Concerto
GRDS 38L	Lithography Laboratory	LATN 34	Honors Institute Seminar in Latin	MUS 47	Opera Survey
GRDS 57	Figure Drawing for Graphic Designers	LIBR 55	Internet Research Strategies & Critical Thinking Skills	MUS 51A	Intermediate Strings
GRDS 58	Fashion Illustration	LIBR 57	Internet Research Strategies, Critical Thinking Skills & Information Literacy	MUS 51B	Beginning Jazz Improvisation
GRDS 64A	Communication Design	LIBR 60	Information Competency: Social Sciences	MUS 51C	Intermediate Jazz Improvisation
GRDS 65A	Computer Graphics I	LIBR 61	Information Competency	MUS 62	Advanced Jazz Improvisation
GRDS 66A	Commercial Illustration	LING 23	Modern English: Function & Grammar	MUS 64	Basic Sound Reinforcement
GRDS 66B	Commercial Illustration	LING 25	Introduction to Descriptive & Historical Linguistics	MUS 81	History of Jazz Styles & Trends
GRDS 70	Business Practices of the Graphic Artist	LIBR 26	Language, Mind & Society	MUS 82	Recording Arts II: Multitrack Recording
GRDS 72	Film Animation	LIBR 27	Black English: Structure & Function	MUS 308	Recording Arts III: Mixing & Mastering
GRDS 73B	Advanced Cartooning	MATH 101E	Elementary Algebra: Systems of Equations	MUSP 19S,T	Music & Amusic Performance Assistance
GRDS 74	Anatomy for Artists	MATH 200E	Structure of Arithmetic: Geometry & Measurement	MUSP 20S	Concert Choir
GRDS 78	Portfolio Presentation	MATH 101A	Elementary Algebra: Real Numbers	MUSP 24S,T	Repertory Chorus
GRDS 80	Art Studio Skills	MATH 101B	Elementary Algebra: Equations	MUSP 95,X,Y	Gospel Chorus
GRDS 82A,B	Introduction to the History of Interior Design	MATH 101C	Elementary Algebra: Polynomials	PHOT 196	Performance Practices in Music
GRDS 85	Advertising Design	MATH 101D	Elementary Algebra: Linear Equations	PHOT 2S,T	Concert Preparation & Presentation
GRDS 88	Graphic Arts Production			PHOT 75S	Intermediate Photography
GRDS 88A	Graphic Arts Production Theory			PHOT 82	Introduction to Computer Graphics
GRDS 88C	Digital Color Prepress			POLI 6	Large-Format Photography
GRDS 92	Graphic Design & Layout			POLI 30	Black Political Economy
GRDS 95	Design with Macromedia Flash				War & Peace in the 20 th & 21 st Centuries
GRDS 98	Graphic Arts Studio Projects				
GRDS 141	Multimedia for Artists				
GRDS 190,X-Z	Directed Study				
H P 12S	Lifeguard Training				
H P 16BS	Skiing Conditioning				
H P 21D	Advanced Stretching & Flexibility				

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Foothill College 2006-2007

PSYC 48	Introduction to Psychology of the Unconscious	SOC 58 SOSC 155X,Y	Sociology of Violence Standardized Test Preparation	SPCH 54,X-Z SPCH 65	Intercollegiate Speech/Debate Survey of Oral Communication
PSYC 56	Psychology of Self	SPAN 1,2	Elementary Spanish	SPCH 101A	Public Speaking for ATYP
R E 51B	Advanced Real Estate Practices	SPAN 5,6	Intermediate Spanish	SPCH 104	Group Discussion for ATYP
R E 52B	Legal Aspects of Real Estate II	SPAN 31A,B	Spanish for Medical Personnel	SPCH 105	Speaking with Confidence
R E 57,X-Z	Special Appraisal Seminar	SPAN 35,X-Z	Department Honors Projects in Spanish	SPCH 190X-Z	Directed Study
R E 80	Real Estate Exam Seminar	SPAN 101-105	Spanish for International Business	SPED 68	ADD Causes & Effects
R T 50A	Law & Ethics in Medical Imaging	SPAN 112,113	Spanish Language & Culture	T C 57	Travel Career Seminar
R T 50B	Basic Patient Care for Imaging Technology	SPCH 35X-Z	Department Honors Projects in Speech	T C 82C	Destination Specialist Series: Eastern Europe
R T 51D	Fundamentals of Radiologic Technology	SPCH 36X-Z	Special Projects in Speech	T C 83D	Destination Specialist Series: Western Europe
RTT 53	Orientation to Radiation Therapy	SPCH 46	Voice & Diction	T C 90	Contemporary Technology Across the Disciplines in Travel Careers
SCI 190,X-Z	Directed Study				



"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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Faculty & Staff

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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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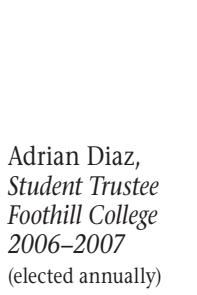
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Vivian Sinou, M.S.

Dean, Faculty & Staff
Patricia Hyland, M.A.

Dean, Foothill Global Access
Judith Baker, Ph.D.

Dean, International Education
George Beers, M.S.

Dean, Middlefield & Evening Campuses
Sandra Urabe, M.S.

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, Foothill College Bookstore
Romeo Paule, B.S.

Director, Marketing & Communications
Kurt Hueg, B.A.

Operations Manager, Facilities
James Zavagno, M.A.

Program Administrator, NASA-Ames Internship & Training Programs
Martha Carlson, M.A.

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

Arreola, Anabel (2006)
Counseling
 B.A., M.A., San Jose State University

Austin, Kathleen Ramos (1990)
Director, Diagnostic Medical Sonography Program
 ARDMs, AART, CRT, San Jose Hospital, San Jose; B.S., University of Phoenix

Baker, Judith (2007)
Dean, Foothill Global Access
 Ph.D., University of Texas at Austin; M.S.W., Virginia Commonwealth University; B.A., College of William & Mary

Balducci, Laureen (2006)
Counseling
 B.A., Alfred University; M.A., State University of New York

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

Bissell, Jeffrey (2006)
Physical Education/Aquatics Coach
 B.A., M.A., California State University, Chico

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; M.A., San Francisco State University

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

Carlson, Martha (2006)
Coordinator, NASA/Ames Internship & Training Program
 B.A., University of Iowa; M.A., California State University, East Bay

Carr, Janice (1989)
Mathematics
 A.B., Colby College; A.M.T., Harvard University

Carter, Celeste V. (1996)
Biology
 B.S., University of California, Berkeley; M.S., Harvard; Ph.D., Pennsylvania State School of Medicine

Casciarano, 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

Connell, Samuel (2006)
Anthropology
 B.A., University of Pennsylvania; M.S., Ph.D., University of California, Los Angeles

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

Crevier, Joy (2005)
Chemistry
 B.S., M.S., University of Washington

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)
Counseling
 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., M.S., 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, 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)
Interim Vice President, Technology, Instruction, Career & Work Force Education
 B.A., Humboldt State University; M.S., South Oregon State College

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

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 & Disabaled 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

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

Hyland, Patricia (2007)
Dean, Faculty & Staff
 B.S., M.A., San Jose State 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)
Communication Studies, 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

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

McIlhiney, Greg (1998)
Computer Information Systems
 B.A., California State University, Chico

McLeod, Bruce (2006)
Drama
 B.A., Western Washington University

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)
Psychology
 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 Sciences
 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

Nava, Tobias (2005)
Counseling
 B.A., M.A., San Jose State University

Ni, Preston (1991)
Communication Studies
 B.S., M.S.B.A., San Francisco State University

Norick, Amanda (2005)
Chemistry
 B.S., Western Oregon University; M.S., Vanderbilt 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)
Interim President
 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

Pennington, Simon (2006)
Art History
 B.A., San Jose State University; M.A., University of East Anglia, Norwich, England

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

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.L.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

Schmidt, Ernie (2005)
Psychological Services
 B.A., University of the Pacific; M.S.W., University of California, Berkeley

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

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

Spragge, 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

Stines, Danielle (2006)
Physical Education/Softball Coach
 B.A., M.S., California State University, East Bay

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

Tapia, Brian (2006)
Philosophy
 B.A., M.A., San Diego 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)
Communication Studies
 B.A., M.A., San Francisco State University; Ph.D., Ohio University

Tripp Caldwell, Kristin (2001)
Video Arts
 B.F.A., University of North Texas; M.F.A., School of Visual Arts, New York

Ullah, Linda (2000)
Krause Center for Innovation Teacher in Residence
 B.A., Marietta College; M.Ed., University of Cincinnati

Urabe, Sandra (1980)
Counseling
 B.A., University of California, Santa Cruz; M.S., California State University, Hayward

Urrutia-Lopez, Rebecca (2000)
Coordinator, Cooperative Work Experience Education
 B.S., San Jose State University; M.A., University of San Francisco

Uyeda, Diane (2004)
English as a Second Language
 B.A., Occidental College, Los Angeles; M.A., University of Washington

Velasco, Lauren Popell (2000)
Communication Studies, Forensics
 B.A., Bates College; M.A., Stanford University

Violett, Glenn (2006)
Business
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Computer Science
 B.A., Western Illinois University; M.S., Iona College

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Adaptive Learning
 M.S., Hofstra University

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English, Creative Writing Conference
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History
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Radiologic Technology
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Computer Information Systems
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Computer Information Systems
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English, Creative Writing Conference
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English as a Second Language
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Political Science
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Business
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Psychology
B.A., Saint Mary's College; M.A., New Mexico Highlands University; C.G. Institute, Zurich, Switzerland

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French
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English
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Astronomy
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Counseling
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Music
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Physical Education: Recreation Coordinator
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English, Speech
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Counseling, Middlefield Campus
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Physical Education, Tennis
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Men's Basketball, Physical Education
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History
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History, Sociology
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Art, Film
B.F.A., M.F.A., University of Pennsylvania

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Anthropology, Philosophy, Sociology
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Electronics Museum
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Graphic Design
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Animal Health Technology
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Director, Cooperative Work Experience Education
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Chemistry, Mathematics, Computer Information Systems
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Football, Physical Education, Track
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Broadcasting, Film, Television
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Dental Assisting
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History
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Physical Education, Intercollegiate Women's Golf
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Health
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Journalism
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Mathematics, Physics
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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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Dean, Instruction & Educational Resources
 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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 A.A., University of Minnesota; B.S., San Diego State University; M.B.A., Golden Gate University

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Psychology
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Respiratory Therapy
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Mathematics
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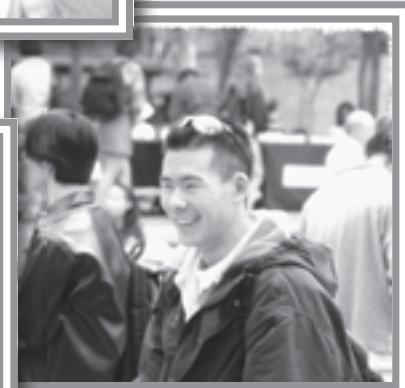
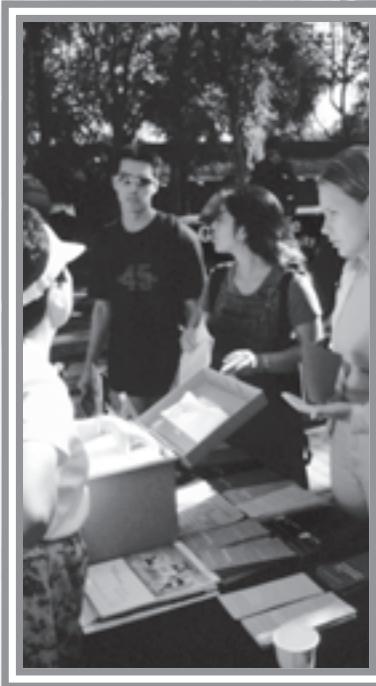
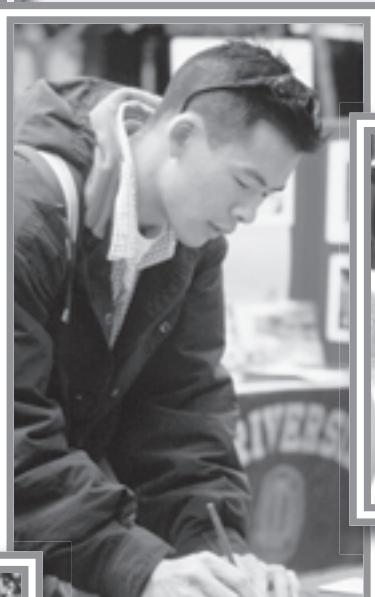
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IDEA Lab



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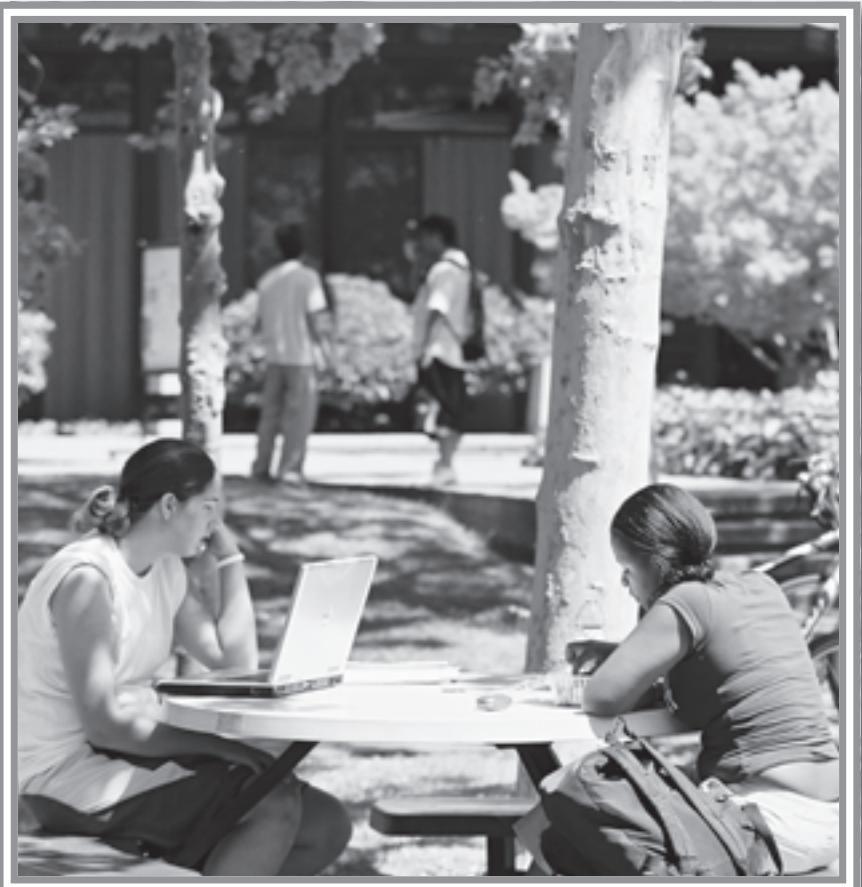
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Campus Information

Parking Regulations

Area & Middlefield Campus Maps

Directions to Foothill College Main Campus

Directions to Foothill College Middlefield Campus

Foothill College Campus Map, Key & Legend

Campus Information

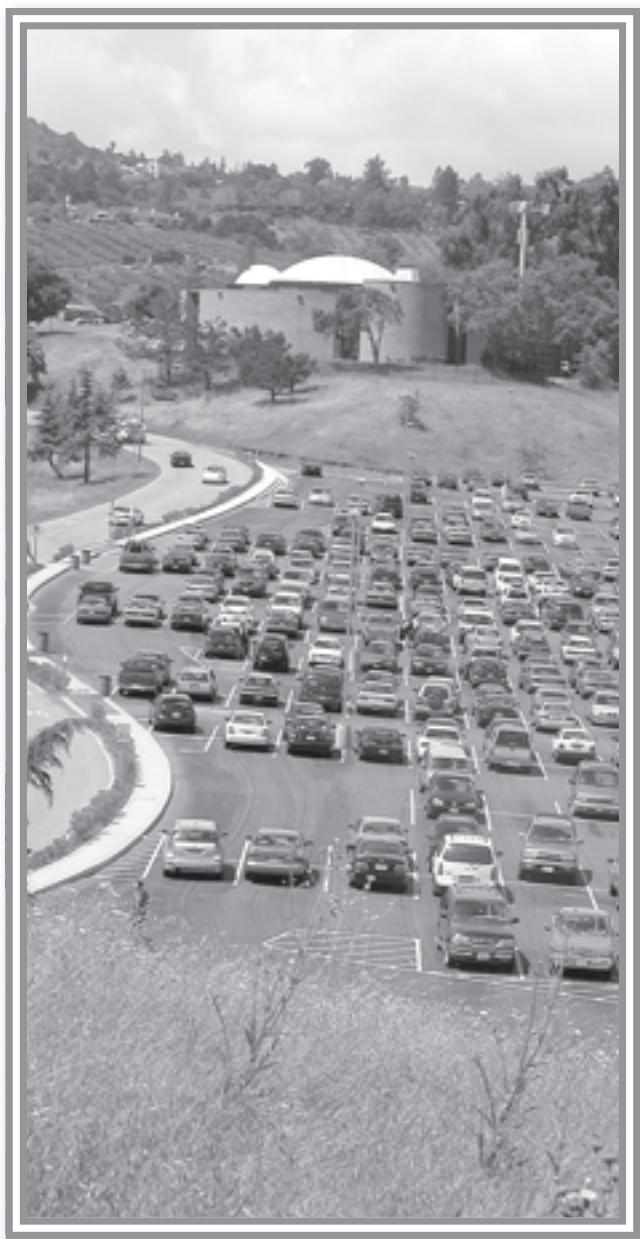
Parking Regulations

The Foothill-De Anza District Police Department supervises on-campus parking and traffic. The following rules and regulations apply to all students, staff and public. You can find a complete list of college parking and traffic regulations in the Admissions & Records Office and District Police Department, 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 or annual permits from the Admissions & Records Office.
- All vehicles must properly display a valid parking permit. Students are authorized to park in marked stalls in student lots only. Students may not park in stalls marked for disabled, staff, vendors, official vehicles or park in roadways, dirt areas or along parking lot curbing. People with disabilities are required to display state-issued identification on their vehicles or, in the event of temporary disabilities, obtain permits from the Disability Resource Center, Room 5801; or call (650) 949-7017.
- Staff parking permits are required for all staff spaces. Staff permits are issued by the District Police Department.
- Special permits will be issued only by the District Police Department. The permit must be displayed on the dashboard or hang on the interior mirror so it can be read from the outside. Special permits are valid only when used within the areas and dates designated on the permit.
- Motor vehicles, bicycles and skateboards are not permitted on the interior portion of campus.
- Don't invite theft by leaving articles of value in your automobile. Anything left in a car should be locked in the trunk. Lock your vehicle.

- All vehicles remaining for more than 20 minutes in areas posted for 20-minute maximum will be cited.
- Parking or loitering on campus after 11 p.m. and/or after special activities is prohibited.
- Alcoholic beverages are prohibited on campus.

For more information, call the District Police Department at (650) 949-7313.



Area & Middlefield Campus Maps



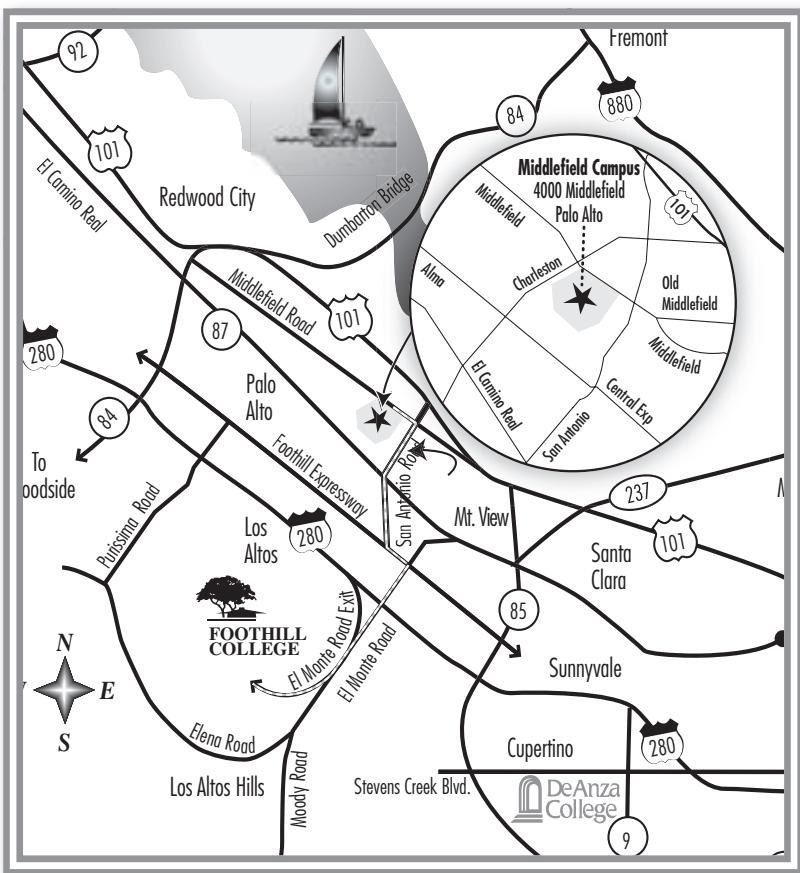
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Directions to Foothill College Main Campus

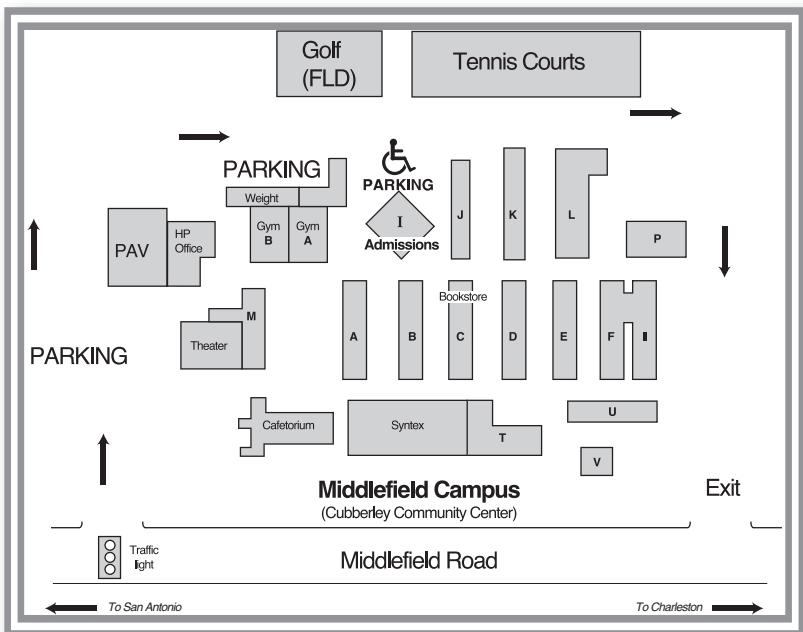
Foothill College is located in Los Altos Hills, 10 minutes south of Stanford University and 20 minutes north of San Jose. From Interstate 280, exit El Monte Road and travel west. Visitors must purchase a required campus parking permit for \$2. Quarterly and annual permits can be purchased in the Admissions Office. Public bus routes #23 and #52 serve the college approximately every 30 minutes.



Directions to Foothill College Middlefield Campus

The Foothill College Middlefield Campus, 4000 Middlefield Road, is located on Middlefield Road between Charleston and San Antonio roads in Palo Alto.

To travel from the Main Campus to the Middlefield Campus: Drive east on El Monte Road. Turn left on Foothill Expressway. Turn right on San Antonio Road. Turn left on Middlefield Road. Parking at Middlefield Campus is free. The trip is five miles.



Foothill College Campus Map, Key & Legend

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ASFC.....	6401	KFJC-FM Radio Station	6202	
ASFC Paint Room Graphics	6304	Krause Center for Innovation.....	4001	
ASFC Smart Shop/OwlCard	6304	Language Arts	6408	
Athletic Training Center (ATC)	2821	Language Arts Lab.....	6308	
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Counseling	1930	Physical Sciences, Mathematics & Engineering.....	4118	
Dental Health Center	5312	Placement Services	5006	
Dining Area	3525	Playhouse Theater.....	1301	
Disability Resource Center.....	5801	Police.....	D100	
Distance Learning	3610	President's Office.....	1904	
District Police & Safety	D100	Psychological Counseling & Services	5933	
Economic Development	4057	Quick Copy	4052	
EOPS Tutoring	5999	Robert C. Smithwick Theater	1001	
English Writing Center	3612	Sentinel Newspaper	5921	
Environmental Horticulture & Design	5702	Service Learning & Volunteer Center	5912	
ESL Writing Center.....	6301	Social Sciences	3007	
Evening College.....	1901	Student Accounts.....	6201	
Extended Opportunity Program/Services (EOPS)	1930	Student Activities Office.....	6402	
Facilities Contracts	2713	Student Affairs	6201	
Faculty Association	D140	Student Success Center	1901	
Financial Aid.....	1930	Temporary Village.....	5901-5999	
Fine Arts	1701	Theater Box Office	1005	
Foothill Café	3525	Transfer Center	1930	
Forum.....	5001	Transition to Work	5801	
Foundation	D100	Travel Careers Training Center.....	3103	
Health Services	5941	Tutorial Center & Programs.....	5999	
Honors Institute	5425	Veterinary Technology.....	4501	
IDEA Lab	1222	Wellness Center	2504	

To accommodate construction projects, some offices and services may be relocated on campus.

Parking

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 and annual permits can be purchased at the Admissions Office (Room 1927).

 Accessible Elevators are located at Krause Center for Innovation, Library and Pool Deck.

Accessible Parking is located in Lots 1, 2-A, 4, 4-A, 4-B, 3-A, 5-A, stadium, and upper transit station. You must display the DMV-placard. To obtain a temporary disability permit, call (650) 949-7017.

Shuttle Service to all points on campus is available for people with physical disabilities. Call (650) 949-7017 or 7103.

TDD-Deaf Access is available. Call (650) 948-6025 or e-mail DavisBrenda@foothill.edu.

For more access information visit the Disability Resource Center (Room 5801); access www.foothill.edu; or call (650) 949-7017, voice; (650) 948-6025, TDD.

LEGEND

	Accessible Bus Stop
	Accessible Parking
	Accessible Ramp
	Automated Teller Machine
	Construction Area
	Designated Smoking Area
	Elevator
	Emergency Telephone
	Pay Telephone
	Pedestrian Path
	Restroom
	Steps

For access information, call (650) 949-7017.



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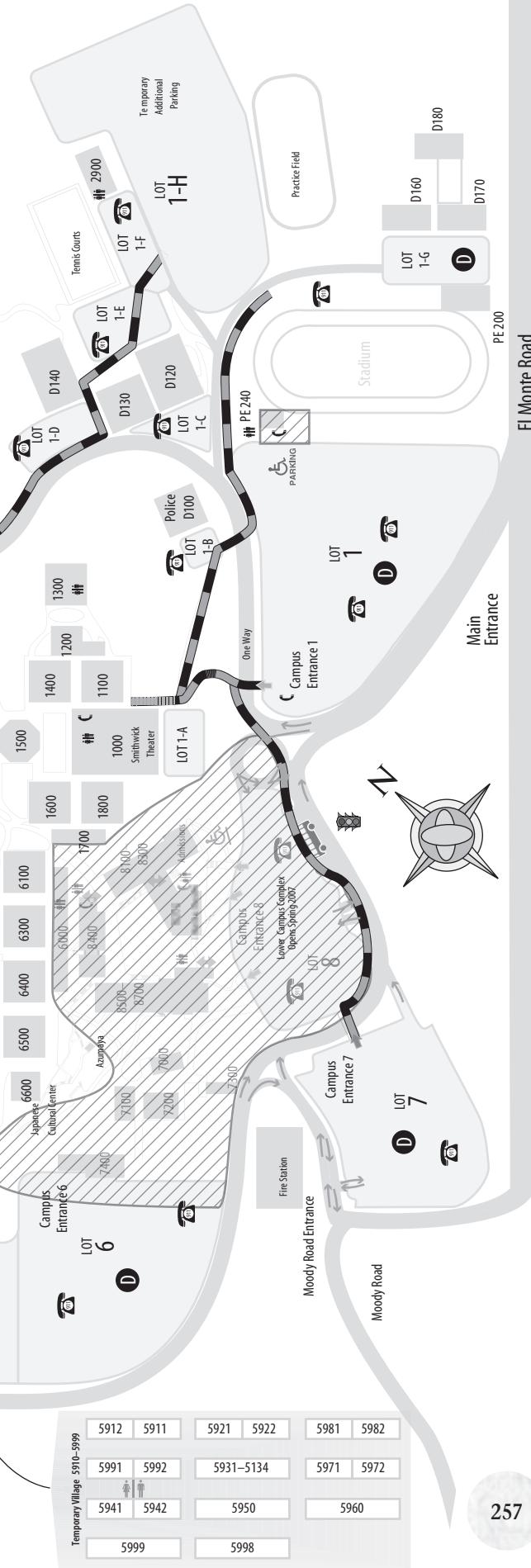
12345 El Monte Road
(Off Interstate 280)
Los Altos Hills, CA 94022-4599
www.foothill.edu
(650) 949-7777

Disability Access Information
(650) 949-7017, voice;
(650) 948-6025, TDD

Walking Time From Parking Lots To Upper Campus		
Lot	Minutes	Lot Minutes
1	4	4
10	4	44
1H	7	48
2	4	5
2A	6	5A
3	4	6
3A	3	7
		8

Legend: Solid black line = Pedestrian Path

Legend:
 = Accessible Bus Stop
 = Accessible Parking
 = Accessible Ramp
 = Construction Zone
 = Automated Teller Machine
 = Designated Smoking Area
 = Elevator
 = Pay Phone
 = Restroom
 = Steps





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